

BEFORE THE NATIONAL GREEN TRIBUNAL
WESTERN ZONE BENCH, AT PUNE

ORIGINAL APPLICATION No. 65 OF 2021

IN THE MATTER OF:

SARANG YADWADKAR

...APPLICANT

VERSUS

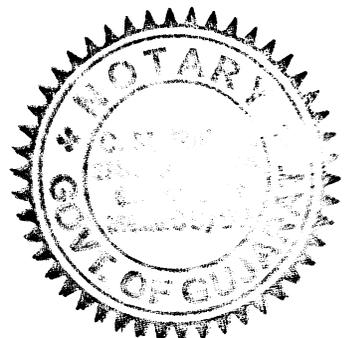
STATE OF MAHARASHTRA & ORS.

...RESPONDENTS

AFFIDAVIT OF RESPONDENT No. 4 - GUJARAT POLLUTION
CONTROL BOARD

I, Niraj A. Shah, adult, having my office at Paryavaran Bhavan, Sector 10-A, Gandhinagar, Gujarat do hereby solemnly affirm and state on oath as under:

1. I am presently serving as Environment Engineer with the Gujarat Pollution Control Board – respondent no. 4 in the present application. I have read copy of the application and the order passed by this Hon'ble Tribunal on the application. I am conversant with the facts of the case having perused the record pertaining to the case available in my office. I am authorised to swear the present affidavit on behalf of Gujarat



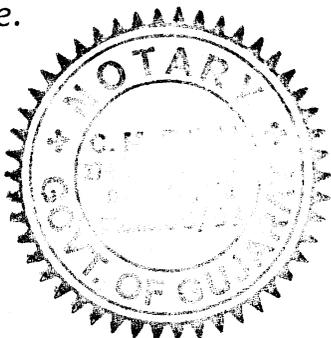
Niraj A. Shah

Pollution Control Board and am otherwise competent to make the present affidavit.

2. The applicant has filed the present application seeking the following principal reliefs against the Gujarat Pollution Control Board and the Government of Gujarat:

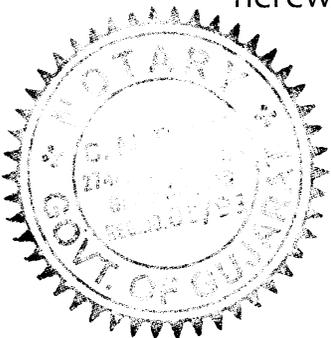
- “(ii) Direct the State Pollution Control Boards of Maharashtra, Gujarat and Goa to formulate State Action Plans as mandated by NCAP within a timeframe stipulated by this Hon’ble Tribunal;
- (iii) Direct the State Governments of Maharashtra, Gujarat, to ensure implementation of the State Action Plans so formulated by the SPCBs;
- (iv) Impose punitive costs on the concerned authorities for gross failure and negligence in executing their duties as per NCAP and violating the provisions of Air (Prevention and Control of Pollution) Act, 1981, leading to unabated air pollution and adverse impacts to environment”

The primary grievance voiced in the present application by the applicant is that the Gujarat State Pollution Control Board has not “**formulated**” State Action Plan for Air Pollution within the time specified in the National Clean Air Programme, and has therefore failed to discharge its statutory duty in law. Such grievance of the applicant suffers from vice of lack of knowledge of true and complete facts and/or misreading of the National Clean Air Programme. Each of the reliefs prayed for by the applicant in the application is frivolous and does not warrant any consideration by this Hon’ble Court. The application praying for these reliefs against the State Pollution Control Board and the State Government is bereft of any legal merit and deserves to be dismissed *in limine*.



M. S. V.

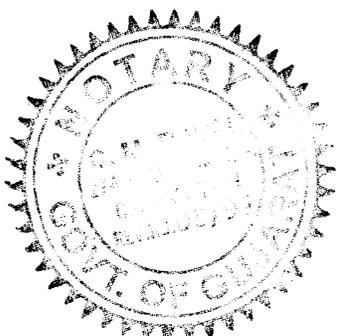
3. The entire application is premised on a self-belief entertained by the applicant that the State Pollution Control Board is supposed to formulate a State Action Plan for Air Pollution as per the guidelines contained in the National Clean Air Programme. The application emphasises failure of the State Pollution Control Board to formulate such Action Plan for the State of Gujarat, and raises a call for issuance of mandatory direction to the Gujarat State Pollution Control Board to frame such plan. The foundational assumption is erroneous and suffers from a complete misreading of the guidelines contained in the National Clean Air Programme. Consequently, the complaint and criticism expressed in the application is unjustified and the remedy sought by the applicant is devoid of any merit, both on facts and in law.
4. National Clean Air Programme aims to 'meet the prescribed annual average ambient air quality standards at all locations in the country in a stipulated timeframe'. The Programme seeks to adopt a collaborative and participatory approach involving Central Ministries, State Governments, Urban Local Bodies, and other Stakeholders, with focus on all sources of pollution.
5. National Clean Air Programme envisages formulation of 'city-specific air quality management plan' for the 122 non-attainment cities including second list in the country on a priority basis. There are 03 cities in the State of Gujarat which have been identified and classified as non-attainment cities – Ahmedabad, Surat and Vadodara. A separate air action plan for each city has been prepared by the Gujarat State Pollution Control Board and approved by Central Pollution Control Board, and the same is available on the official website of the Central Pollution Control Board. A copy of Action Plan for Ahmedabad is annexed herewith and marked as **Annexure R-1**. A copy of Action Plan for Surat is annexed herewith and marked as **Annexure R-2**. Both these plans were prepared



ASW

and approved in April 2019. For the city of Vadodara, an action plan has been prepared and the same has been approved on 27.01.2021. A copy of Action Plan for Vadodara is annexed herewith and marked as **Annexure R-3**. The action plan for Rajkot being million plus city has been prepared by the Gujarat State Pollution Control Board and approved by Central Pollution Control Board, and the same is also available on the official website of the Central Pollution Control Board. An action plan has been prepared and the same has been approved on 25.03.2021. A copy of Action Plan for Rajkot is annexed herewith and marked as **Annexure R-4**. The State Pollution Control Board has therefore complied with the requirement of preparing action plan for each of the city which is identified as a non-attainment city and included in million plus city.

6. I say that the action plan for each of these cities is being strictly implemented by the Municipal Corporation of each of these cities together with the State Pollution Control Board and other governmental departments and agencies. The progress of the implementation is being reviewed at City level by the District Level Committee headed by Commissioner of Municipal Corporation of each of these cities. Key features of action plan includes various points along with responsible agency for implementation with time targets viz. to control of vehicular pollution, to reduce road dust due to construction activities and biomass burning , to control industrial pollution etc. All possible steps are being taken to conserve and improve the quality of air in these cities in line with approved action plan. Micro action plans approved by Central Pollution Control Board are also under implementation for each of the cities. Monitoring of the implementation of the Action Plan at State level is also being carried out by the committee constituted for the purpose under the chairmanship of Additional Chief Secretary of Forest and Environment Department, GoG. Last meeting was held on 21/11/2022.



Arjun

10. I submit that the Board remains committed to performing its statutory duties and assure that all necessary actions will be taken by the Board to create a clean environment and pollution free air and water in the State of Gujarat. I submit that the Board shall abide by any and all reasonable directions or orders that may be issued in this behalf by the Hon'ble Tribunal.

[Handwritten Signature]

DEPONENT

VERIFICATION

Verified at *Ramshagan* On this 18th day of ~~November 2021~~ *Jan 2023* that the contents of the above affidavit are true and correct, nothing stated therein is false and nothing material has been concealed therefrom.

[Handwritten Signature]

DEPONENT

Solemnly Affirmed
Before Me

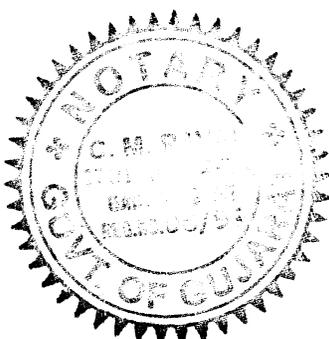
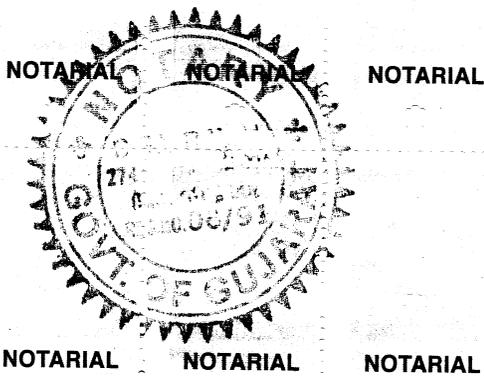
[Handwritten Signature]
(C. M. RAVAL)
NOTARY

Govt of Gujarat

18 JAN 2023

Entered in Notary Register at
Serial No. *53* Vol. No. *I*
[Handwritten Signature]
C. M. RAVAL, Advocate & Notary
GANDHINAGAR.

18 JAN 2023



**ACTION PLAN FOR CONTROL OF AIR POLLUTION
IN NON-ATTAINMENT CITY OF GUJARAT
(AHMEDABAD)**

BY

**GUJARAT POLLUTION CONTROL BOARD
Paryavaran Bhawan, Sector 10-A,
Gandhinagar**

**Action Plan for Control of Air Pollution
in Non-Attainment City of Gujarat (Ahmedabad)**

Preamble:

Ahmedabad is Gujarat's largest city with a population of 5.6 million as per the 2011 census was founded in 1411 AD as a walled city on the eastern bank of River Sabarmati. It is the seventh largest city of India. The city is located at 21°03'N and 72°58'E. Historically Ahmedabad has been one of the most important centres of trade and commerce in western India. It is also a major industrial and financial city contributing about 60% of the total productivity of the state. Ahmedabad city of Gujarat is emerged as an important economic and industrial hub in India and one of the hundred Indian smart city. The area around Ahmedabad and the banks of the Sabarmati river is better known for best Infrastructure and Transport.

The total no. of vehicles registered in Ahmedabad district are more than 40 lakhs. Pharmaceuticals, Chemicals, Textile & Construction are the main industries of Ahmedabad of today. Total no. of vehicles registered as on June, 2018 in Ahmedabad District with Transport Department is 40,78,718 (Goods Vehicle: 1,53,836, Passenger Vehicle: 36,928, Car: 6,66,753, Taxi/Jeep: 50,961, Auto Rickshaw: 1,83,854, Two Wheeler: 28,78,309, Tractor/Trailer: 83,754 and others: 11,708).



The major sources of air pollution in Ahmedabad city are road dust, vehicular emission, domestic fuel burning, open waste burning, construction activities, industrial emissions etc. Gujarat Pollution Control is regularly monitoring the ambient air quality at Ahmedabad through Continuous Ambient Air Quality Monitoring Station (CAAQMS) installed at Kankariya Dhor Bajar (Maninagar) and GIDC Vatva and through 14 manual stations operated as per CPCB guidelines under NAMP & SAMP.

Particulate Matter (PM₁₀ & PM_{2.5}) has been identified as main air pollutant as it is found above the prescribed national standards. This is mainly due to re-suspension of road dust, emission from vehicles, D.G. sets, construction activities, burning of domestic fossil fuels, open burning of

solid wastes, transportation of construction materials such as sand, soil etc. without covering and emission from brick kilns located around Ahmedabad. NO₂ also has been observed an alarming level. This is mainly due to vehicular emissions. Plying of old vehicles and traffic congestion causes higher level of NO₂. It has been observed that air quality of Ahmedabad during winter season becomes poor & severe due to condensation of fine particulate matter in the lower portions of the atmosphere.

Action Plan for Control of Air Pollution in Non-Attainment city of Gujarat

| | | | |
|----|--|---|--|
| 1. | Name of the city | : | Ahmedabad |
| 2. | Air Pollution concerns | : | PM ₁₀ , PM _{2.5} , NO ₂ |
| 3. | Air pollution levels: (provide range of 24-houly average concentration values; annual average for past five years; No. days in various AQI categories) | : | Annexed as Annexure-1 |
| 4. | Months with high air pollution levels | : | January, February, November & December |
| 5. | Action Plan: | | |

| Source group | Action | Implementation period (Short/ Mid /Long-term) | Responsible agency(ies) | Time target for Implementation | Financial Allocation | Any other information |
|--------------|--|---|--|--|----------------------|--|
| Vehicles | 1. Restriction on plying and phasing out of 15 years old commercial diesel driven vehicles. | Mid | Transport Department | 1 years | | Policy will be finalized within six months. |
| | 2. CNG infrastructure for auto gas supply in the city and transition of public transport vehicles to CNG mode. Introduction of e-buses for Public transport | Long | Transport Department & Oil companies, AMC, GSRTC | 2 years | | Policy will be finalized within 6 months. Ahmedabad Janmarg Ltd (AJL) is in process of procuring 50 CNG & 50 e-buses. Further to this, a new RFP for procurement, operation and maintenance of 300 e-buses. Therefore, AJL is very much on the path to introduce more e-buses and CNG buses. |
| | 3. Installation of remote sensor based PUC system | Long | Transport Department | 2 years | | Policy will be finalized within six months. |
| | 4. Synchronize traffic movements/Introduce intelligent traffic system for lane-driving | Mid | AMC, Traffic Police | First Pilot Project of Area Traffic Control system (ATCS) 10 Nos. of Traffic | In Smart city Budget | After successful completion of First Pilot Project of Area Traffic Control system (ATCS), as and observation of result AMC may go for implication of Area Traffic Control system (ATCS) on another signalize junctions. |

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| | | | | junction from Panchvati to Iscon work is in Progress under Smart city. Project is likely to be completed by 31 st March-19. | | |
| 5. Prepare Action Plan to check fuel adulteration and random monitoring of fuel quality data | Ongoing | District Adm., Oil company, Civil Supply Dept., Transport Department | Continuous process | | | Team will be formed at District level & frequency of monitoring shall be decided. |
| 6. Promotion and operationalization of E-rickshaw/E-Cart. | Long | Transport Department | 2-5 years | | | Transport Department will prepare a policy within 6 months. |
| 7. Prevent parking of vehicles in non-designated areas. Development of Multi-layer parking | Long Long | AMC, Traffic Police AMC, UD&HD & District Adm | continuous process | as per AMC budget | | Parking policy is required to prepare. Four Multi level parking are functional and 3 more multilevel parking are planned. Details attached here |

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|------------------------|---|---------|---------------------------------------|---------|------|---|
| | 8. Introduction of BS-6 fuels in vehicles in metro cities | Long | RTO, Transport Department | 2020 | | |
| | 9. Augmentation of Public Transport in the city | Mid | AMC | | 2020 | <p>AJL has floated tenders for procurement of 50 CNG buses, 50 e-buses. And new RFP of 300 e-buses.</p> <p>So, a process of fleet augmentation is very much in progress.</p> <p>Metro Rail Project for Phase-I East-West corridor 18.52 Km length & North-South corridor of 20.73 km is under progress</p> |
| | 10. Monitoring on Vehicle Fitness | Ongoing | Transport Department & Traffic Police | | | At present, monitoring of 100 % vehicle fitness is obtained but conversion into electrical manner checking is yet to be achieved. |
| | 11. Prepare plan for widening of road and improvement of infrastructure for decongestion of road. | Long | AMC, Traffic Police | 2024 | 2020 | <p>1) AMC is carry out road widening as well as recarpeting of roads regularly and approximate 200 Km. roads attended at the cost of about 300 cr. every years.</p> <p>2) There are total 53 bridges in AMC limit and 7 no. of New bridges are in progress out of this 1 will completed on 31st march 2019 and more 1 will complete on November 2019 and rest 5 bridges will be completed by 2020.</p> |
| .R Ob | 1. Regular cleaning of road dust. | Short | AMC | Ongoing | | <ul style="list-style-type: none"> Daily two time sweeping in morning and evening shift is done by more |

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| | | | | | | <p>than 12500 Safai Karamcharis on a daily basis.</p> <ul style="list-style-type: none"> • Moreover AMC also deployed 40 road sweeping machines for mechanized road sweeping. • RWAs are also assigned for manual cleaning of roads in night shift. |
| 2. Creation of Green buffers along the traffic corridors. | Mid | AMC | Continuous | 50 Lakh (Financial Allocation Year 2019-20) | Regular Continues by AMC in Financial year 2019-2020, plan to develop 10 km central verge and 10 new traffic circle. | |
| 3. Construction of pucca pavement along the roads. | Mid | AMC and Road Construction Department | | | AMC is also planning to construct all major roads wall to wall along with paved shoulder and footpaths where all utilities are completed on regular basis. | |
| 4. Maintain pothole free roads for free flow of traffic | Short | AMC | | | <p>Ahmedabad Municipal Corporation has made various arrangements for maintenance of road,</p> <p>Road which are falls in deflect liability period that is maintained by concern contractor at his own cost.</p> <p>Road which are not falls in defect liability period are being maintained by AMC with following methods.</p> <ul style="list-style-type: none"> • Manual patchwork by hot mix material. • Manual patchwork by cold mix material. | |

| | | | | | | |
|--|--|---------|---|-------------------|--|---|
| | | | | | | <ul style="list-style-type: none"> • Road repairing by cold emulsion injection pothole patching technology. • Repairing of minor Erosion for improvement of riding quality is carryout using Micro Surfacing technique. <p>For repairing of major Erosion or Heavy damage of roads, Heavy patch work done with hot mix with paver machine and roller.</p> |
| | 5. Development of green belt in open areas, gardens, parks/ community places, schools & housing societies. | Long | Department of Environment and Forest, AMC | Ongoing Continues | 10 Crore (Financial Allocation Year 2019-20) | Regular Continues by AMC, in Financial year 2019-2020, plan to develop 10 new gardens. |
| | 6. Introduction of water fountains at major traffic intersection/ circle | Long | AMC | continuous | as per budget | Many fountain functional |
| | 7. Blacktopping of metaled road including pavement of road shoulders | Ongoing | AMC | Ongoing | | <p>1) AMC is carry out road widening as well as recarpeting of roads regularly and approximate 200 Km. roads attended at the cost of about 300 cr. every years.</p> <p>2)AMC is also planning to construct all major roads wall to wall along with paved shoulder and footpaths where all utilities are completed on regular basis.</p> |

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|-----------------------------|---|-------|------|------------------|-------------------|---|
| Construction activities | 1. Enforcement of Construction and Demolition Waste Rules | Short | AMC | | | Public health byelaws-2012 are already enforced for C & D waste collection, transportation and disposal C & D Waste recycling plant is working at Gyaspur. |
| | 2. Control measures for fugitive emissions from material handling-conveying and screening operations through water sprinkling, curtains, barriers and dust suppression units. | Short | AMC. | 1 year | as per AMC budget | Other Departments like estate , TDO, Water operation worked together |
| | 3. Ensure Carriage of construction material in closed/ covered vessels | Short | AMC | 1 year | as per AMC budget | Work already started |
| Biomass and garbage burning | 1. Restriction on open burning of municipal solid waste, Biomass, plastic, horticulture waste etc. | Short | AMC | | | Public health byelaws-2012 are already enforced and punitive measures are taken against offence of burnig of MSW. |
| | 2. Immediate lifting of solid wastes generated from de-silting and cleaning of municipal drains for its disposal. | Short | AMC | less than 1 year | 70.00 Crore | Advance suction machinery and bucket rickshaw |

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|----------------------|---|-------|------------------------------|--------------------|--|---|
| | 3. Transportation of municipal solid wastes, construction materials and debris in covered system. | Short | AMC | | | <ul style="list-style-type: none"> All vehicles of AMC deployed for MSW and Debris collection and transportation are closed body / covered. Public health byelaws-2012 are already enforced and punitive measures are taken against offence of transportation of MSW, C & D and debris. |
| | 4. Ensuring promotion & use of cleaner fuel for commercial purposes like local Dhaba/ eateries | Long | District Adm. & Oil company | | | |
| Industries | 1. Ensuring installation and operation of air pollution control devices in industries. | Short | GPCB | Ongoing | | <p>For industries using solid fuel</p> <ul style="list-style-type: none"> Steam generation capacity > 2TPH auto fuel feeding system and bag filter as APCM and heat exchanger before APCM Steam generation capacity > 6TPH & more ESP as APCM |
| | 2. Ensuring emission standards in industries. | Short | GPCB | Continuous Process | | |
| | 3. Adoption of cleaner technology in brick kilns | Mid | GPCB | 1 year | | No major brick kilns within city limit. Brick Kilns of AUDA area (i.e. city outskirt) will be targeted. |
| Strengthening of AAQ | 1. Operation of CAAQMS at Ahmedabad a. Two CAAQM stations at Maninagar and GIDC Vatva are operational. | Mid | GPCB, Industries Association | | | Maninagar CAAQMS is linked with CPCB and second will be linked within six months. |
| | 2. Source apportionment study | Mid | GPCB, GEMI | 2019 | | Dept. of F&E has given this work to GEMI for Ahmedabad City |

| | | | | | | |
|------------------|--|-------|---------------------------------------|-------------|---------|--|
| Public Awareness | 1. Issue of advisory to public for prevention and control of air pollution | Short | AMC | Implemented | 20 lack | "SAFAR" Ahmedabad AIR project launched. |
| | 2. Launch public awareness campaign for vehicle maintenance, minimizing use of personal vehicles, lane discipline etc. | Short | Transport Department & Traffic Police | | | Development of mobile app is under progress. |
| Others | 1. Compliance of guidelines on D.G. sets and action against violation | Short | GPCB & AMC | | | By & large, due to uninterrupted power supply in the city, D G Set operation is only for stand by purpose as & when required. As per new categorisation of CPCB D G Set upto 1000 KVA falls under white category and do not require permission from GPCB. |
| | 2. Coordination with concerned authorities on continual basis for maximizing coverage of LPG/PNG for domestic and commercial cooking with target of 100% coverage. | Short | Civil Supply Dept | | | GOI has floated Ujjwala Scheme for facilitating use of LPG as domestic fuel instead of burning wood, cow dung cakes, coal etc. Department has declared Ahmedabad as kerosene free city. |

4. Monitoring mechanism for implementation:

The aforesaid action plan shall be implemented by Gujarat Pollution Control Board with co-ordination of Department of Environment and Forest, Govt. of Gujarat, Urban Development & Housing Department, Govt. of Gujarat, Transport Department, Ahmedabad Municipal Corporation, Traffic Police and District Administration. Gujarat Pollution Control Board shall regularly review the implementation of aforesaid action plan.

A State level Air quality monitoring committee for non-attainment cities has been constituted as per the NGT order dated: 08/10/2018.

A District Level Task Force under the Chairmanship of District Collector has been constituted and all the implementing agencies are members of the Task Force while Regional Officer, GPCB is Member Secretary of the Task Force. Review of implementation of the Action Plan is being carried out by the Task Force.

5. Implementation status:

The Chief Secretary, Govt. of Gujarat convened meeting with different concerned departments on 05/12/2015 and 17/11/2016 and directed for compliance of directions for improvement of ambient air quality of Ahmedabad.

| AHMEDABD AIR QUALITY | | | | | |
|--|--|------------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|
| ANNUAL AVERAGE 2017-18 (FROM APRIL-2017 TO MARCH-2018) | | | | | |
| SR NO. | LOCATION | PM ₁₀ µg/m ³ | PM _{2.5} µg/m ³ | SO ₂ µg/m ³ | NO _x µg/m ³ |
| | <i>National std. for annual average</i> | 60 | 40 | 50 | 40 |
| 1. | Cadila Laboratories Ltd | 163.75 | 49.59 | 16.65 | 28.15 |
| 2. | L D College of engineering, Navrangpura | 133.08 | 44.54 | 13.32 | 26.05 |
| 3. | Shardaben Hospital, Saraspur | 144.58 | 47.62 | 13.56 | 28.75 |
| 4. | R.C Technical schhol, Mirzapur | 138.33 | 45.48 | 13.48 | 28.34 |
| 5. | Behrampura Referral hospital | 147.17 | 47.59 | 14.33 | 29.96 |
| 6. | Satellite area Jodhpur Shraddha Pumping station | 158.83 | 49.12 | 13.77 | 27.58 |
| 7. | On the terrace of traffic booth, Ashram road | 163.42 | 49.78 | 13.96 | 30.23 |
| 8. | Pumping station rakhiyal | 144.42 | 46.65 | 13.72 | 29.31 |
| 9. | Dynowash, Illaben Estate, Narol | 192.33 | 53.51 | 15.30 | 31.48 |
| 10. | Sola chanakyapuri pumping station, nr. Kargil char rasta | 155.08 | 49.20 | 15.08 | 28.41 |
| 11. | Udyog Nagar Police Chowky, GIDC-Naroda | 155.8 | 49.5 | 14.5 | 27.2 |
| 12. | Mukesh Industry, Narol | 154.8 | 49.8 | 16.3 | 31.2 |
| 13. | H.P. Petrol Pump, S.P. Ring Road, Odhav-Naroda Road | 146.6 | 47.0 | 14.8 | 28.9 |
| 14. | VIA Hall, GIDC-Vatva | 150.8 | 47.7 | 15.3 | 29.6 |

| AHMEDABAD - AMBIENT AIR QUALITY | | | | | |
|--|---|---------------------------------------|--|--------------------------------------|--------------------------------------|
| ANNUAL AVERAGE 2016-17 (FROM APRIL- 2016 TO MARCH- 2017) | | | | | |
| SR. NO. | LOCATION | PM ₁₀ ug/m ³ | PM _{2.5} ug/m ³ | SO ₂ ug/m ³ | NO _x ug/m ³ |
| | <i>National Std. for Annual average</i> | 60 | 40 | 50 | 40 |
| 1 | Cadilla Laboratories Ltd | 113.75 | 35.58 | 13.08 | 29.81 |
| 2 | L.D ENG.COLLEGE, NAVRANGPURA, | 113.67 | 35.08 | 12.36 | 25.46 |
| 3 | Shardaben Hospital, Saraspur | 111.83 | 35.84 | 12.78 | 28.05 |
| 4 | R.C TECHNICAL SCHOOL, MIRZAPUR | 112.25 | 35.67 | 12.59 | 27.19 |
| 5 | BEHRAMPURA REFERAL HOSPITAL | 112.42 | 35.71 | 13.25 | 29.92 |
| 6 | SATELLITE AREA Shradhdha Pumping Station, Jodhpur | 114.75 | 36.50 | 12.79 | 26.98 |
| 7 | On the terrace of traffic booth ,Aashram road, NEHRUBRIDGE | 111.83 | 35.38 | 12.08 | 31.53 |
| 8 | Pumping station Rakhial | 113.43 | 35.57 | 13.06 | 30.35 |
| 9 | Reliable Products, 61,62/Dyno wash Illaben Estate, Narol | 110 | 35 | 14.35 | 30.29 |
| 10 | Sola Chanakya puri pumping station, Near Kargil Char Rasta | 112.33 | 35.42 | 12.04 | 27.43 |
| 11 | Udyog Nagar Police Chowky, GIDC-Naroda | 114.1 | 36.0 | 12.9 | 28.2 |
| 12 | Mukesh Industry, Narol | 114.0 | 36.4 | 15.0 | 33.6 |
| 13 | H.P. Petrol Pump, S.P. Ring Road, Odhav-Naroda | 114.7 | 36.2 | 13.1 | 32.9 |

| | | | | | |
|----|----------------------|-------|------|------|------|
| | Road | | | | |
| 14 | VIA Hall, GIDC-Vatva | 111.6 | 35.8 | 15.3 | 32.0 |

| AHMEDABAD - AMBIENT AIR QUALITY | | | | | |
|--|--|-------------------|-------------------|-------------------|-------------------|
| ANNUAL AVERAGE 2015-16 (FROM APRIL - 2015 TO MARCH - 2016) | | | | | |
| SR. | LOCATION | PM ₁₀ | PM _{2.5} | SO ₂ | NO _x |
| NO. | | ug/m ³ | ug/m ³ | ug/m ³ | ug/m ³ |
| | <i>National Std. for Annual average</i> | 60 | 40 | 50 | 40 |
| | <i>National Std. for 24 hourly average</i> | 100 | 60 | 80 | 80 |
| 1 | Cadilla Laboratories Ltd | 108.50 | 34.00 | 14.27 | 28.18 |
| 2 | L.D ENG.COLLEGE, NAVRANGPURA, | 110.67 | 33.33 | 12.57 | 24.69 |
| 3 | Shardaben Hospital, Saraspur | 107.67 | 33.51 | 13.08 | 26.93 |
| 4 | R.C TECHNICAL SCHOOL, MIRZAPUR | 106.67 | 33.08 | 12.58 | 26.85 |
| 5 | BEHRAMPURA REFERAL HOSPITAL | 107.92 | 33.71 | 14.43 | 29.41 |
| 6 | SATELLITE AREA Jodhpur Taker Urben Health center | 109.17 | 34.08 | 13.05 | 27.37 |
| 7 | On the terrace of traffic booth ,Aashram road, NEHRUBRIDGE | 107.46 | 33.38 | 11.79 | 31.99 |
| 8 | Pumping station Rakhial | 107.55 | 33.02 | 13.73 | 29.98 |

| | | | | | |
|----|--|--------|-------|-------|-------|
| 9 | Reliable Products, 61,62/Dyno wash Illaben Estate, Narol | 105.08 | 33.13 | 15.87 | 28.86 |
| 10 | Udyog Nagar Police Chowky, GIDC-Naroda | 139.0 | 49.0 | 15.0 | 30.0 |
| 11 | Mukesh Industry, Narol | 186.0 | 68.0 | 21.0 | 37.0 |
| 12 | H.P. Petrol Pump, S.P. Ring Road, Odhav-Naroda Road | 114.0 | 44.0 | 12.0 | 27.0 |
| 13 | VIA Hall, GIDC-Vatva | 142.0 | 55.0 | 22.0 | 36.0 |

| AHMEDABAD - AMBIENT AIR QUALITY | | | | | |
|--|-----------------------------------|--------|-------|-------|-------|
| ANNUAL AVERAGE 2014-15 (FROM APRIL - 2014 TO MARCH - 2015) | | | | | |
| Sr. No. | LOCATION | PM10 | PM2.5 | SO2 | NOx |
| | | ug/m3 | ug/m3 | ug/m3 | ug/m3 |
| 1 | Cadilla Laboratories Ltd | 116.66 | 44.05 | 13.37 | 25.72 |
| 2 | L.D ENG.COLLEGE, NAVRANGPURA, | 79.47 | 30.50 | 12.14 | 19.49 |
| 3 | Shardaben Hospital, Saraspur | 110.15 | 42.73 | 12.75 | 24.94 |
| 4 | R.C TECHNICAL SCHOOL, MIRZAPUR | 93.97 | 38.18 | 12.00 | 21.46 |
| 5 | BEHRAMPURA REFERAL HOSPITAL | 104.15 | 39.82 | 14.64 | 24.03 |

| | | | | | |
|----|--|--------|-------|-------|-------|
| 6 | SATELLITE AREA Jodhpur Taker Urben Health center | 87.75 | 33.28 | 11.30 | 21.86 |
| 7 | On the terrace of traffic booth ,Aashram road, NEHRUBRIDGE | 114.85 | 47.77 | 13.04 | 25.28 |
| 8 | Pumping station Rakhial | 93.41 | 33.75 | 13.22 | 22.29 |
| 9 | Reliable Products, 61,62/Dyno wash Illaben Estate, Narol | 92.52 | 29.00 | 13.39 | 19.99 |
| 10 | Udyog Nagar Police Chowky, GIDC-Naroda | 94.0 | 35.0 | 14.5 | 22.0 |
| 11 | Mukesh Industry, Narol | 99.0 | 42.0 | 14.9 | 22.4 |
| 12 | H.P. Petrol Pump, S.P. Ring Road, Odhav-Naroda Road | 89.0 | 31.0 | 13.2 | 20.4 |
| 13 | VIA Hall, GIDC-Vatva | 95.0 | 35.0 | 14.6 | 21.8 |

| AHMEDABAD - AMBIENT AIR QUALITY | | | | | |
|--|--------------------------|-------|-------|-------|-------|
| ANNUAL AVERAGE 2013-14 (FROM APRIL - 2013 TO MARCH – 2014) | | | | | |
| STATION | | PM10 | PM2.5 | SO2 | NOx |
| | | ug/m3 | ug/m3 | ug/m3 | ug/m3 |
| 1 | Cadilla Laboratories Ltd | 89.28 | 32.38 | 13.77 | 20.31 |

| | | | | | |
|----|--|-------|-------|-------|-------|
| 2 | L.D ENG.COLLEGE, NAVRANGPURA, | 81.8 | 28.08 | 13.53 | 18.96 |
| 3 | Shardaben Hospital, Saraspur | 82.91 | 28.48 | 12.36 | 19.32 |
| 4 | R.C TECHNICAL SCHOOL, MIRZAPUR | 82.95 | 28.77 | 12.56 | 19.66 |
| 5 | BEHRAMPURA REFERAL HOSPITAL | 84.41 | 29.98 | 13.37 | 20.41 |
| 6 | SATELLITE AREA Jodhpur Taker Urben Health center | 79.71 | 27.79 | 14.21 | 20.51 |
| 7 | On the terrace of traffic booth ,Aashram road, NEHRUBRIDGE | 90.84 | 33.90 | 15.19 | 21.20 |
| 8 | Pumping station Rakhial | 93.67 | 38 | 13.08 | 20.93 |
| 9 | Reliable Products, 61,62/Dyno wash Illaben Estate, Narol | 89.33 | 33.00 | 13.07 | 21.00 |
| 10 | Udyog Nagar Police Chowky, GIDC-Naroda | 101.3 | 30.6 | 14.3 | 20.5 |
| 11 | Mukesh Industry, Narol | 103.0 | 35.0 | 16.0 | 22.0 |
| 12 | H.P. Petrol Pump, S.P. Ring Road, Odhav-Naroda Road | 84.0 | 26.0 | 13.0 | 18.0 |
| 13 | VIA Hall, GIDC-Vatva | 97.0 | 28.0 | 14.0 | 20.0 |

| AHMEDABAD - AMBIENT AIR QUALITY | | | | | |
|---|---|--------------|--------------|--------------|--------------|
| ANNUAL AVERAGE 2012-13 (FROM APRIL - 2012 TO MARCH – 2013) | | | | | |
| STATION | | PM10 | PM2.5 | SO2 | NOx |
| | | ug/m3 | ug/m3 | ug/m3 | ug/m3 |
| 1 | Cadilla Laboratories Ltd | 92.92 | 30.78 | 13.25 | 20.58 |
| 2 | L.D ENG.COLLEGE, NAVRANGPURA, | 65.07 | 25.15 | 10.89 | 16.57 |
| 3 | Shardaben Hospital, Saraspur | 68.43 | 26.38 | 10.01 | 16.85 |
| 4 | R.C TECHNICAL SCHOOL, MIRZAPUR | 71.31 | 26.24 | 11.53 | 18.59 |
| 5 | BEHRAMPURA REFERAL HOSPITAL | 70.49 | 26.24 | 12.04 | 17.68 |
| 6 | SATELLITE AREA Jodhpur Taker Urben Health center | 68.11 | 24.78 | 11.12 | 17.46 |
| 7 | On the terrace of traffic booth ,Aashram road, NEHRUBRIDGE | 112.91 | 34.08 | 28.84 | 23.12 |
| 8 | Udyog Nagar Police Chowky, GIDC-Naroda | 98.0 | 49.0 | 13.0 | 27.8 |
| 9 | Mukesh Industry, Narol | 127.0 | 61.0 | 13.81 | 29.8 |
| 10 | H.P. Petrol Pump, S.P. Ring Road, Odhav-Naroda Road | 69.0 | 33.0 | 10.55 | 20.44 |
| 11 | VIA Hall, GIDC-Vatva | 73.0 | 39.0 | 11.60 | 23.63 |

| AHMEDABAD - AMBIENT AIR QUALITY | | | | | |
|---|---|--------------|--------------|--------------|--------------|
| ANNUAL AVERAGE 2011-12 (FROM APRIL - 2011 TO MARCH – 2012) | | | | | |
| STATION | | PM10 | PM2.5 | SO2 | NOx |
| | | ug/m3 | ug/m3 | ug/m3 | ug/m3 |
| 1 | Cadilla Laboratories Ltd | 82.38 | 41.77 | 11.59 | 24.46 |
| 2 | L.D ENG.COLLEGE, NAVRANGPURA, | 59.54 | 28.56 | 9.75 | 16.39 |
| 3 | Shardaben Hospital, Saraspur | 73.07 | 38.50 | 11.24 | 22.57 |
| 4 | R.C TECHNICAL SCHOOL, MIRZAPUR | 68.15 | 35.23 | 10.48 | 21.16 |
| 5 | BEHRAMPURA REFERAL HOSPITAL | 72.68 | 33.56 | 10.90 | 22.64 |
| 6 | SATELLITE AREA Jodhpur Taker Urben Health center | 74.63 | 35.15 | 10.64 | 22.56 |
| 7 | On the terrace of traffic booth ,Aashram road, NEHRUBRIDGE | 94.82 | 50.67 | 12.38 | 27.64 |
| 8 | Udyog Nagar Police Chowky, GIDC-Naroda | 106.0 | 42.0 | 17.49 | 33.18 |
| 9 | Mukesh Industry, Narol | 137.0 | 61.0 | 18.26 | 36.98 |
| 10 | H.P. Petrol Pump, S.P. Ring Road, Odhav-Naroda Road | 83.0 | 33.0 | 12.27 | 24.93 |
| 11 | Vatva-Odhav, S.P. Ring Road | 86.0 | 32.0 | 11.89 | 26.13 |

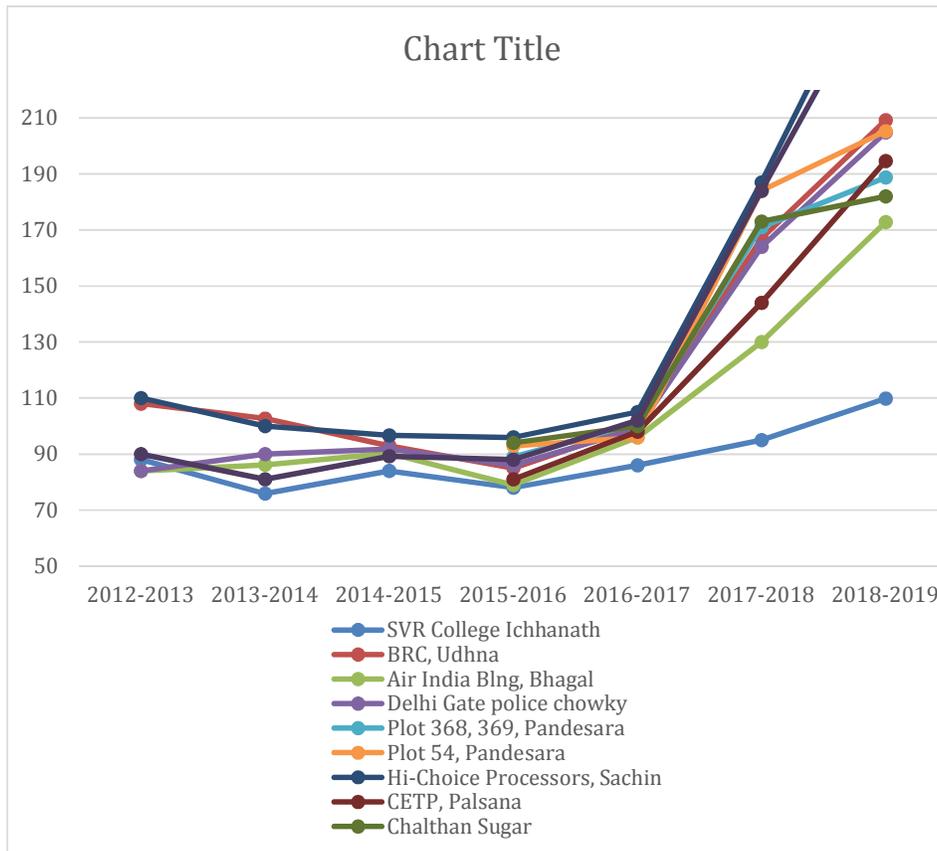
Surat –Air Pollution Control Action Plan

Surat is Gujarat's second-largest city with a population of 4.6 million as per the 2011 census. It is the eighth largest city and ninth largest metropolitan area of India. Surat is the 34th-largest city by area and 4th-fastest developing cities in a study conducted by the City Mayors Foundation, an international think tank on urban affairs. Surat was awarded "best city" by the Annual Survey of India's City-Systems (ASICS) in 2013. Surat is a port city situated on the banks of the Tapti river. The nearest ports are in the Magadalla and Hazira area of Surat Metropolitan Region. The city is located at 21°10'N, 72°50'E. It has an average elevation of 13 meters. The Surat district is surrounded by the Bharuch, Narmada, Navsari, to the west is the Gulf of Cambay and the surrounding districts. 9

The total no. of vehicles registered in Surat district are more than 24 lakhs. Surat is known for diamonds, textiles, and for diamond-studded gold jewellery manufacturing. Surat registered a GDP of 11.5% for the seven fiscal years 2001–2008, the fastest growing GDP in India. The city accounts for 90% of the world's total rough diamond cutting and polishing; 99.99% of the nation's total rough diamond cutting and polishing; 90% of the nation's total diamond exports. Surat accounts for 40% of the nation's total man made fabric production; 28% of the nation's total manmade fibre production; 18% of the nation's total man-made fibre export; and 12% of the nation's total fabric production. Apart from Textile and Diamond sectors, Surat houses Large scale units in Fertilizer, Steel, Petrochemical, Heavy Engineering located in Hazira area.

Ambient air quality monitoring is carried out in Surat City and surrounding industrial areas at Seven locations while at total Ten locations in Surat District, as per the CPCB guidelines under NAMP and SAMP programmes. Surat Municipal Corporation is in process of installing Two CAAQMS in Surat City. GPCB has also decided to install CAAQMS in Surat.

The AAQ trend of monitoring location in Surat City showing concentration of PM10 is given below:



Ambient Air Quality trend showing PM10 levels in Surat
(Concentration of PM10 in microgram per cubic meter)

The AAQ trends show that the PM10 levels are exceeding the National Standards for average annual concentrations. Ambient Air Quality data of last five years is given in Annexure- 1(A). $PM_{2.5}$ levels are observed to be within the National Standards for average annual concentrations. Particulate Matter in ambient air of urban areas is mainly contributed by vehicular emission, fuel quality, MSW management, road conditions etc. Textile processing industries located in and around the city of Surat are also sources of PM emission. The Air Pollution Control Action Plan is framed to control the respirable particulate matter (PM10) emission caused by vehicular and industrial sources in Surat city.

Surat – Air Pollution Control Action Plan

1. Name of the City: **Surat**
2. Air Pollution concern: **PM₁₀, PM_{2.5}, NO₂**
3. Air pollution levels: **Pl. refer Annexure-1(A)**
4. Months with high pollution levels: **November to May**
5. **Action Plan:**

| Source Group | ACTION | Implementation Period (Short/ Mid/ long-term) | *Time Target for implementation | Financial allocation (Cr) | Responsible Agency(ies) | Any other information |
|--------------|--|---|--|---------------------------|-------------------------|--|
| Vehicles | 1. Restriction on plying and phasing out of 15 years old commercial diesel driven vehicles | Mid term | 2 years | | Transport department | Policy will be finalized within six months. |
| | 2.Launch extensive drive against polluting vehicles for ensuring strict compliance. | Ongoing | Committee will be formed and will be reviewed in three months. | | RTO, Traffic Police | PUC Centres- Petrol-71 Diesel- 38 Action taken by RTO against PUC violation:20 15-16: cases: 18941 |
| | 2. Launch public awareness campaign for vehicle maintenance, minimizing use of personal vehicles, lane discipline etc. | Mid term | | | RTO, Traffic Police | |
| | 3. Prevent parking of vehicles in non-designated areas. | long term | 2 years | | SMC, Traffic Police | Revised parking policy is prepared and implemented within 2 |

| | | | | | | |
|--|--|-----------|--|-----|---------------------------|---|
| | | | | | | years. Multi level parking, Designated Parking areas by SMC |
| | 4. Introduction of BS-VI fuels in vehicles in metro cities | Long Term | 2020 | | RTO, Transport Department | |
| | 5. Prepare Action Plan to check fuel adulteration and random monitoring of fuel quality data | Ongoing | Committee will be formed and will be reviewed in three months. | | DSO (Civil Supply Dept) | Periodical checking of petrol pumps by DSO |
| | | | | | | |
| | 6. Prepare plan for widening of road and improvement of infrastructure for decongestion of road. | Long Term | 2024 | 500 | SMC, Traffic Police | <p>River Bridge-9, Under Construction-1</p> <p>Railway Bridges: -</p> <p>ROB/RUB-12</p> <p>Fly Over Bridge- 19</p> <p>Creek Bridge-</p> <p>Flyovers at all junctions of NH-8 completed</p> <p>Constructing Road Dividers- 186.68 kms</p> <p>Restrictions on movement of heavy vehicles and buses implemented by Traffic Police.</p> <p>Proposed</p> |

| | | | | | | |
|--|--|-----------|-----------|-----|--------------------------------------|---|
| | | | | | | works: River Bridge-2 Railway Bridges: - ROB/RUB- 3 Fly Over Bridge- 2 Creek Bridge- 2 |
| | 7. Prepare plan for construction of diversion ways/ bypasses to avoid congestion due to non-destined vehicles. | Long Term | 2023 | 50 | SMC, NHAI, R&B Dept. | National Highway passes about 15 kms away from the City and non-destined vehicles does not pass through city. |
| | 8. Steps for promoting battery operated vehicles like E-rickshaw/E-Cart | Long Term | 2-5 years | 128 | SMC, RTO, Transport Department (GoG) | Transport Department (GoG) will prepare a policy within 6 months. Electric Vehicles registered- 115 |
| | 9. Synchronize traffic movements/ introduce intelligent traffic system for lane-driving | Mid Term | | | SMC, Traffic Police | Constructing Traffic Islands/Channelizers:- By sponsors: 116, By S.M.C: 78 Count Down Timers- 242 nos. Traffic Timer systems, gradation of cross roads and traffic points carried out, traffic management is carried |

| | | | | | | |
|--|--|-------------------------------------|---------|------|---------------------------------|---|
| | | | | | | out accordingly. |
| | 10. Installation of remote sensor based PUC system | Long Term | 2 years | | Transport Department (GoG) RTO | Policy will be finalized within six months by Transport Department (GoG). Work of fully automated vehicle fitness certification centre is in progress |
| | 11. Augmentation of Public Transport in the city | Mid Term and Long Term (Metro rail) | 2027 | 1700 | SMC, Transport Department (GoG) | BRTS has been made operational on Nine corridors. 120 buses ply on 102 km length of BRTS network. BRTS ridership- about 55,000 passengers/ day 187 city buses ply on 23 routes covering distance of 285 km. City Buses ridership- about 85,000 passengers/ |

| | | | | | | |
|--|--|-----------|---------|--|--|---|
| | | | | | | day For Metro Rail- The preparation of detailed project report (DPR) for feasibility of Surat Metro Rail is awarded to Delhi Metro Rail Corporation (DMRC) through MEGA Co. Ltd. |
| | 12. CNG infrastructure for auto gas supply in the city and transition of public transport vehicles to CNG mode Introduction of e-buses for Public transport in metro cities | Long term | 2 years | | Transport Department (GoG) Gujarat Gas Co.Ltd SMC RTO | Policy will be finalized within 6 months. 54 CNG stations in and around Surat (33 within SMC limit) Out of 54 stations, 47 (including all CNG stations located within SMC limit) are Online Stations / Mother Stations and 7 are Daughter/ Daughter Booster Stations. Auto rickshaw registered only on |

| | | | | | | |
|-----------|---|------------|------|-----|--------------------------------------|---|
| | | | | | | <p>CNG mode Regd. CNG Auto rickshaws - 88594 CNG Private buses- 246 LPG LMV- 23486 LPG Motor Cycle- 12939</p> <p>Total CNG dispensing capacity- 9.87 lakhs scmd</p> |
| | 13. Monitoring on vehicle fitness | Ongoing | | | Transport Department, Traffic police | At present, monitoring of 100 % vehicle fitness is obtained but conversion into electrical manner checking is yet to be achieved. |
| Road Dust | 1. Regular cleaning of road dust | Ongoing | 2020 | 5 | SMC | By introducing 21 mechanical sweepers. |
| | 2. Prepare Plan for Creation of Green buffers along the traffic corridors | Ongoing | 2021 | 100 | SMC, SUDA | SMC has developed green belt, plantation along BRTS routes in the city and work is ongoing. |
| | 3. Maintain pothole free roads for free-flow of traffic. | Short Term | | | SMC | Regularly carried out by SMC. |
| | 4. Introduce | Long Term | 2023 | 10 | SMC | SMC has |

| | | | | | |
|--|---|----------------|--|------------|--|
| | <p>water fountain at major traffic intersection wherever feasible.</p> | | | | <p>initiated vertical gardening at major traffic intersection- Athwa Gate.</p> |
| | <p>5. Greening of open areas, gardens, community places, schools and housing societies.</p> | <p>Ongoing</p> | | <p>SMC</p> | <p>In the last four years itself, the following work carried out by SMC Garden Department:</p> <p>45 Nos. of gardens, & 6 Nos. of lakes are developed in different zones.</p> <p>2,67,237 Nos. of trees are planted along the road side & road divider.</p> <p>3,28,778 Nos. of trees are planted in large open space as mass plantation for shelter belt & Green belt.</p> <p>Children traffic Park & Skating rink are developed for citizens.</p> <p>Musical Sound</p> |

| | | | | | | |
|-----------------------------|--|-----------|-----------|-----|-----|--|
| | | | | | | System, Musical dancing fountains and other fountains are installed. Zoological park named "Nature Park" (Phase - I) has been opened for public from 26th April 2003, where as Phase-II work in progress with 6 animal moated enclosure, reptile house and walkway in butterfly park. |
| | 6. Blacktopping of metaled road including pavement of road shoulders. | Ongoing | Ongoing | 65 | SMC | Regularly carried out by SMC. |
| Biomass and Garbage Burning | 1. Regular check & control of open burning of bio-mass, plastics, garbage, leaves etc. | Ongoing | | | SMC | MSW is collected and transported in form of Primary Collection System and Secondary Collection System. 95% SMC |
| | 2. Regular collection and control | Long Term | Max. 2023 | 223 | SMC | |

| | | | | | |
|--|--|------------|--|-----|--|
| | of municipal solid wastes. | | | | area covered. |
| | 3. Proper collection of horticulture waste (biomass) and its disposal following composting –cum- gardening approach. | Short Term | | SMC | <p>Primary Collection System comprising of Door to Door collection system from about 12 lakh households, Container Lifting System and other modes like Night scraping-brushing, Hotel Kitchen Waste collection etc. All the primary collecting vehicles reaches to transfer station from where secondary transportation vehicles are loaded for the purpose of transferring it to disposal site.</p> <p>There are 6 nos. Refuse Transfer Stations located in the different zones of the city.</p> <p>600 TPD</p> |

| | | | | | | |
|------------|---|------------|--|--|------------------------|---|
| | | | | | | composting plant has been installed and made operational phase wise by SMC contracted agency. It has also initiated process for establishing RDF plant. |
| | 4. Ensure ban on burning of agriculture waste and crop residues and its implementation | Ongoing | | | SMC, SUDA | No such activity of significance observed in SMC area or upwind surrounding areas. |
| Industries | 1. Identification of brick kilns and their regular monitoring including use of designated fuel and closure of unauthorized units. | Short Term | | | GPCB | No major brick kilns in SMC area and outgrowth areas. Brick Kilns in rural hinterland are regularly monitored. |
| | 2. Conversion of natural draft brick kilns to induced draft. | Short Term | | | Brick Kiln Units, GPCB | No major brick kilns in SMC area and outgrowth areas of Surat. |
| | 3. Ensuring installation and operation of air control devices in industry. | Short Term | | | GPCB | Industries, mainly textile processing units have obtained consent |

| | | | | | | |
|---------------------------|---|------------|--|--|-----|--|
| | | | | | | <p>from GPCB. Monitoring as per the prescribed frequency and based on complaints. Pilot project of Emission Trading Scheme (ETS) which includes installation of PM CEMS (Continuous Emission Monitoring System) is under implementation in phased manner. Auto fuel firing systems provided by textile processing units</p> <p>Actions taken under the Air Act</p> <p>During 2016-17 Direction of closure- 13 Notice- 76</p> <p>During 2017-18 Till June 17 Direction of closure- 29 Notice- 58</p> |
| Construction & demolition | 1. Enforcement of Construction and Demolition | Short Term | | | SMC | SMC has allotted land plot for recycling of C&D wastes |

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| | | | | | | |
|--------------------------------------|---|------------|------------|---|-------------|--|
| Activities | Waste Rules, | | | | | to contracted agency. It has obtained authorization under C&D waste Rules and are going to start on trail basis. |
| | 2. Control measures for fugitive emissions from material handling-conveying and screening operations through water sprinkling, curtains, barriers and dust suppression units. | Short Term | | | SMC | SMC has incorporated conditions in this regard in its development permissions and monitoring the same. |
| | 3. Ensure Carriage of construction material in closed/ covered vessels. | Short Term | | | SMC, RTO | |
| Strengthening of AAQ Monitoring | 1. Source apportionment study | Mid Term | 2024 (max) | 7 | GPCB SMC | SMC has collaborated with TERI with consultation of GPCB. |
| Other Steps to control air pollution | 1. Air Quality Index to be calculated and disseminated to the people through | Mid Term | | | GPCB SMC | Total 10 nos. of AAQ stations operational in Surat District. Out of which 7 |

| | | | | | | |
|--|---|----------|--|--|------|--|
| | website and other media (on maximum weekly basis for manually operated monitoring stations and real time basis for continuous monitoring stations. | | | | | stations are under NAMP One CAAQMS to be installed by GPCB in Surat. Two sensor based CAAQMS are installed by SMC in Surat at Varachha area and Limbayat area. 12 more station are proposed by SMC as per CPCB specification and guidelines. |
| | 2. Engage with concerned authorities on continual basis for maximizing coverage of LPG/PNG for domestic and commercial cooking with target of 100% coverage | Mid Term | | | DSO | GOI has floated Ujjwala Scheme for facilitating use of LPG as domestic fuel instead of burning wood, cow dung cakes, coal etc. |
| | 3. Compliance of guidelines on DG sets and action against violations. | Ongoing | | | GPCB | By and large, due to uninterrupted power supply in the city, DG set operations |

| | | | | | | |
|--|--|--|--|--|--|---|
| | | | | | | are only for stand by purpose as & when required. |
| * Time Target for implementation is being decided in consultation with respective stakeholders | | | | | | |

6. Monitoring Mechanism for implementation:

The aforesaid action plan shall be implemented by Gujarat Pollution Control Board with co-ordination of Department of Environment and Forest, Govt. of Gujarat, Urban Development & Housing Department, Govt. of Gujarat, Transport Department, Ahmedabad Municipal Corporation, Traffic Police and District Administration. Gujarat Pollution Control Board shall regularly review the implementation of aforesaid action plan.

A State level Air quality monitoring committee for non-attainment cities has been constituted as per the NGT order dated: 08/10/2018.
 A District Level Task Force under the Chairmanship of District Collector has been constituted and all the implementing agencies are members of the Task Force while Regional Officer, GPCB is Member Secretary of the Task Force. Review of implementation of the Action Plan is being carried out by the Task Force.

| SURAT - AMBIENT AIR QUALITY | | | | | |
|--|--|-------------------|-------------------|-------------------|-------------------|
| ANNUAL AVERAGE 2018-19 (FROM APRIL- 2018 TO Nov- 2018) | | | | | |
| SR. | LOCATION | PM ₁₀ | PM _{2.5} | SO ₂ | NO _x |
| NO. | | ug/m ³ | ug/m ³ | ug/m ³ | ug/m ³ |
| | <i>National Std. for Annual average</i> | 60 | 40 | 50 | 40 |
| | <i>National Std. for 24 hourly average</i> | 100 | 60 | 80 | 80 |
| 1 | SVR College, Ichachhanath | 109.82 | 36.49 | 18.68 | 23.05 |
| 2 | BRC, Udhana | 209.19 | 62.27 | 23.52 | 28.79 |
| 3 | Air-India Bldg., Bhagal | 172.82 | 58.36 | 18.88 | 22.98 |
| 4 | Delhi Gate Police Chowki | 204.84 | 65.05 | 20.61 | 24.89 |
| 5 | Plot 368,369, Pandesara | 188.75 | 57.70 | 20.32 | 26.80 |
| 6 | Plot 54, Pandesara | 205.24 | 61.61 | 20.44 | 25.59 |
| 7 | Hi - Choice Processors, Sachin | 275.74 | 80.25 | 26.87 | 36.60 |
| 8 | CETP, Palsana | 194.62 | 57.25 | 20.91 | 25.35 |
| 9 | Chalthan Sugar | 182.01 | 51.97 | 20.29 | 26.88 |
| 10 | Garden Silk Mills, Kadodara | 264.18 | 76.59 | 20.62 | 24.18 |

| SURAT - AMBIENT AIR QUALITY | | | | | |
|--|--|-------------------|-------------------|-------------------|-------------------|
| ANNUAL AVERAGE 2017-18 (FROM APRIL- 2017 TO MARCH- 2018) | | | | | |
| SR. | LOCATION | PM ₁₀ | PM _{2.5} | SO ₂ | NO _x |
| NO. | | ug/m ³ | ug/m ³ | ug/m ³ | ug/m ³ |
| | <i>National Std. for Annual average</i> | 60 | 40 | 50 | 40 |
| | <i>National Std. for 24 hourly average</i> | 100 | 60 | 80 | 80 |
| 1 | SVR College, Ichachhanath | 95 | 33 | 15 | 23 |
| 2 | BRC, Udhana | 167 | 53 | 23 | 32 |
| 3 | Air-India Bldg., Bhagal | 130 | 42 | 18 | 27 |
| 4 | Delhi Gate Police Chowki | 164 | 54 | 23 | 31 |
| 5 | Plot 368,369, Pandesara | 171 | 55 | 19 | 29 |
| 6 | Plot 54, Pandesara | 184 | 55 | 20 | 29 |
| 7 | Hi - Choice Processors, Sachin | 187 | 55 | 23 | 34 |

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| | | | | | |
|----|-----------------------------|-----|----|----|----|
| 8 | CETP, Palsana | 144 | 48 | 19 | 26 |
| 9 | Chalthan Sugar | 173 | 50 | 17 | 26 |
| 10 | Garden Silk Mills, Kadodara | 184 | 53 | 19 | 27 |

| SURAT - AMBIENT AIR QUALITY | | | | | |
|---|--|-------------------|-------------------|-------------------|-------------------|
| ANNUAL AVERAGE 2016-17 (FROM APRIL- 2016 TO MARCH- 2017) | | | | | |
| SR. | LOCATION | PM ₁₀ | PM _{2.5} | SO ₂ | NO _x |
| NO. | | ug/m ³ | ug/m ³ | ug/m ³ | ug/m ³ |
| | <i>National Std. for Annual average</i> | <i>60</i> | <i>40</i> | <i>50</i> | <i>40</i> |
| | <i>National Std. for 24 hourly average</i> | <i>100</i> | <i>60</i> | <i>80</i> | <i>80</i> |
| 1 | SVR College, Ichachhanath | 86 | 29 | 13.5 | 22.3 |
| 2 | BRC, Udhana | 100 | 34 | 15.4 | 26.3 |
| 3 | Air-India Bldg., Bhagal | 96 | 32 | 14.2 | 27.7 |
| 4 | Delhi Gate Police Chowki | 99 | 34 | 15.8 | 28.5 |
| 5 | Plot 368,369, Pandesara | 101 | 34 | 18.1 | 30.4 |
| 6 | Plot 54, Pandesara | 96 | 33 | 17.9 | 30.0 |
| 7 | Hi - Choice Processors, Sachin | 105 | 36 | 18.2 | 32.8 |
| 8 | CETP, Palsana | 98 | 34 | 16.2 | 26.9 |
| 9 | Chalthan Sugar | 100 | 34 | 14.0 | 27.4 |
| 10 | Garden Silk Mills, Kadodara | 102 | 35 | 15.1 | 27.2 |

| SURAT - AMBIENT AIR QUALITY | | | | | |
|--|--|-------------------|-------------------|-------------------|-------------------|
| ANNUAL AVERAGE CONCENTRATION DURING 2015-16 : APRIL - 2015 TO MARCH - 2016 | | | | | |
| SR. | LOCATION | PM ₁₀ | PM _{2.5} | SO ₂ | NO _x |
| NO. | | ug/m ³ | ug/m ³ | ug/m ³ | ug/m ³ |
| | <i>National Std. for Annual average</i> | 60 | 40 | 50 | 40 |
| | <i>National Std. for 24 hourly average</i> | 100 | 60 | 80 | 80 |
| 1 | SVR College, Ichachhanath | 78 | 25 | 11.2 | 19.5 |
| 2 | BRC, Udhana | 85 | 29 | 17.2 | 25.4 |
| 3 | Air-India Bldg., Bhagal | 79 | 27 | 11.5 | 20.6 |
| 4 | Delhi Gate Police Chowki | 86 | 30 | 12.7 | 23.3 |
| 5 | Plot 368,369, Pandesara | 89 | 32 | 19.3 | 27.1 |
| 6 | Plot 54, Pandesara | 93 | 32 | 14.1 | 21.5 |
| 7 | Hi - Choice Processors, Sachin | 96 | 34 | 33.9 | 30.6 |
| 8 | CETP, Palsana | 81 | 29 | 13.0 | 22.9 |
| 9 | Chalthan Sugar | 94 | 38 | 13.0 | 25.3 |
| 10 | Garden Silk Mills, Kadodara | 88 | 30 | 14.5 | 24.9 |

| AMBIENT AIR QUALITY MONITORING ,SURAT | | | | |
|--|-------|-------|-------|-------|
| ANNUAL AVERAGE FROM APRIL - 2014 TO MARCH - 2015 | | | | |
| STATION | PM10 | PM2.5 | SO2 | NOx |
| | ug/m3 | ug/m3 | ug/m3 | ug/m3 |
| SVR College, Ichachhanath | 84.00 | 29.08 | 13.82 | 21.05 |
| DARSHAN,BRC, UDHANA | 93.00 | 33.25 | 14.73 | 21.27 |
| AIR INDIA, KOTSAFIL ROAD | 90.33 | 31.58 | 13.82 | 20.60 |
| DELHI GATE | 91.83 | 31.92 | 14.03 | 20.76 |
| HI - CHOICE, SACHIN | 96.67 | 33.42 | 16.87 | 22.70 |
| Garden silk mills, KADODARA | 89.25 | 31.33 | 13.88 | 20.87 |
| | | | | |
| | | | | |

| AMBIENT AIR QUALITY MONITORING ,SURAT | | | | |
|---|---------------|--------------|--------------|--------------|
| ANNUAL AVERAGE FROM APRIL - 2013 TO MARCH - 2014 | | | | |
| STATION | PM10 | PM2.5 | SO2 | NOx |
| | ug/m3 | ug/m3 | ug/m3 | ug/m3 |
| NAMP STATIONS | | | | |
| SVR College, Ichachhanath | 75.92 | 25.33 | 11.24 | 17.21 |
| DARSHAN,BRC, UDHANA | 102.67 | 30.50 | 15.81 | 20.40 |
| AIR INDIA, KOTSAFIL ROAD | 86.17 | 26.92 | 12.21 | 18.37 |
| DELHI GATE | 90 | 28 | 13 | 19 |
| HI - CHOICE, SACHIN | 100 | 31 | 17 | 23 |
| Garden Silk Mills, KADODARA | 81 | 27 | 14 | 20 |

| AMBIENT AIR QUALITY MONITORING ,SURAT | | | | |
|---|--------------|--------------|--------------|--------------|
| ANNUAL AVERAGE FROM APRIL - 2012 TO MARCH - 2013 | | | | |
| STATION | PM10 | PM2.5 | SO2 | NOx |
| | ug/m3 | ug/m3 | ug/m3 | ug/m3 |
| NAMP STATIONS | | | | |
| SVR College, Ichachhanath | 88 | 28 | 13.99 | 23.32 |
| AIR INDIA, KOTSAFIL ROAD | 84 | 30 | 15.09 | 24.27 |
| DARSHAN,BRC, UDHANA | 108 | 35 | 19.52 | 28.93 |
| DELHI GATE | 84 | 27 | 13.66 | 24.09 |
| HI - CHOICE, SACHIN | 110 | 36 | 75.49 | 23.94 |
| KADODARA | 90 | 29 | 14.17 | 24.66 |

**ACTION PLAN FOR CONTROL OF AIR POLLUTION
FOR
NON – ATTAINMENT CITY OF GUJARAT (VADODARA)**

| Source Group | Action | Implementation period (Short / Mid / Long term) | Responsible agency (ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on August -2020 | | | | | | | | | | | |
|--------------|--|---|--------------------------|--------------------------------|---|---|---------|----------|----------|----|------------------|-----------------|----|----------------------|----------------------|----|-----------------|
| Vehicles | Launch extensive drive against polluting vehicles for ensuring strict compliance | On going | RTO, CoT, Traffic police | Continuous Process | From regular budget of the concerned department | <p>Below is the details provided by the concern agency in the last 10 years Number of total vehicles : 1117875</p> <p>(1) Vehicles running on CNG : 25515 (2) Vehicles running on Battery : 373 (3) Vehicles running on Petrol : 1002697 (4) Vehicles running on Diesel : 84501 (5) Vehicles running on Other fuel, if any : 4789</p> <ul style="list-style-type: none"> • Re-registration of non-transport vehicle is done after 15 years from the date of registration, if motor vehicle is fit for road worthiness. • Re-registration of the transport vehicle is done on every year by issuing certificate of fitness on application of owner of motor vehicle. • Number of cases 12,567 and Fine levied is Rs. 31,47,900 without PUC certificate in 2019 by the traffic police. | | | | | | | | | | | |
| | Prevent parking of vehicles in the non-designated areas | Long | Traffic police, VMC | Continuous Process | As per VMC budget | <p>VMC has prepared a draft of parking policy in April-2019, which is under process of approval in their General Body.</p> <p>Existing pay and parking location with its capacity is as under</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Location</th> <th>Capacity</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Khanderav market</td> <td>Two-Wheeler-180</td> </tr> <tr> <td>2.</td> <td>Near railway station</td> <td>Four-wheeler-8 to 10</td> </tr> <tr> <td>3.</td> <td>Near Heerakbag,</td> <td>Two-Wheeler-350</td> </tr> </tbody> </table> | Sr. No. | Location | Capacity | 1. | Khanderav market | Two-Wheeler-180 | 2. | Near railway station | Four-wheeler-8 to 10 | 3. | Near Heerakbag, |
| Sr. No. | Location | Capacity | | | | | | | | | | | | | | | |
| 1. | Khanderav market | Two-Wheeler-180 | | | | | | | | | | | | | | | |
| 2. | Near railway station | Four-wheeler-8 to 10 | | | | | | | | | | | | | | | |
| 3. | Near Heerakbag, | Two-Wheeler-350 | | | | | | | | | | | | | | | |

| Source Group | Action | Implementation period (Short / Mid / Long term) | Responsible agency (ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on August -2020 | | | | | | | | | | | | |
|--------------|---|---|--------------------------|--------------------------------|----------------------|--|--|-----------------|--|----|-------------------------------------|-----------------|----|--------------------|-----------------|----|-------------------------------------|-----------------|
| | Development of Multi-layer parking | | | | Appx.7.14 crores | <table border="1"> <tr> <td></td> <td>railway station</td> <td></td> </tr> <tr> <td>4.</td> <td>MangalBajar opposite Khajuri masjid</td> <td>Two-Wheeler-300</td> </tr> <tr> <td>5.</td> <td>Padmavati Basement</td> <td>Two-Wheeler-500</td> </tr> <tr> <td>6.</td> <td>Zulelaal Temple to Manoranjan Hotel</td> <td>Two-Wheeler-450</td> </tr> </table> <p>Multi-layer parking is proposed near Bank of Baroda, RC dutt road with capacity of 61 four wheeler and 78 two-wheeler.</p> <p>Towing cranes are being operated continuously to lift and levy penalty for parking at unauthorized places.</p> <p>Towing crane cases in 2019 are 15,217 and fine levied is Rs. 43,48,800 rupees. Towing cranes provided by VMC.</p> | | railway station | | 4. | MangalBajar opposite Khajuri masjid | Two-Wheeler-300 | 5. | Padmavati Basement | Two-Wheeler-500 | 6. | Zulelaal Temple to Manoranjan Hotel | Two-Wheeler-450 |
| | railway station | | | | | | | | | | | | | | | | | |
| 4. | MangalBajar opposite Khajuri masjid | Two-Wheeler-300 | | | | | | | | | | | | | | | | |
| 5. | Padmavati Basement | Two-Wheeler-500 | | | | | | | | | | | | | | | | |
| 6. | Zulelaal Temple to Manoranjan Hotel | Two-Wheeler-450 | | | | | | | | | | | | | | | | |
| | Enhance parking fee by 3 – 4 times | Mid | VMC | 2 Years | ---- | As covered in Draft Parking Policy of VMC | | | | | | | | | | | | |
| | Prepare action plan to check fuel adulteration and random monitoring of fuel quality data | On going | RTO, Civil Supply | Continuous Process | ---- | <p>Since the civil supply department is now not issuing any licenses, they are not inspecting or carrying out drive regarding fuel adulteration, except in case of complaint.</p> <p>Further, alteration of vehicles from petrol to diesel is not allowed by RTO.</p> | | | | | | | | | | | | |

| Source Group | Action | Implementation period (Short / Mid / Long term) | Responsible agency (ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on August -2020 | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|---|--------------------------|--------------------------------|--|--|--------|--------------|--------------------------------|---|--|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|
| | Prepare plan for widening of road and improvement of infrastructure for decongestion of road | Long | VMC | 3 Years | SwarnimJyantiMukhyam antrishaheriv ikasyojana , 14 th Finance board & smart city Bridge Projects financial allocation is : A+B+C+D= 672.1 Crores (details of A, B,C, and D is given bellow) Proposed work (A) : 319 Crores | <p>Bridge Projects :</p> <p>In Vadodara city traffic survey is conducted by Central Government organization of CRRI and widening of existing bridges and new bridges are done as per their recommendation. Some of which have been completed, some are in progress and another seven new such works are proposed. For improving traffic flow following actions taken / planned.</p> <p>(A) Proposed work :</p> <table border="1"> <thead> <tr> <th>Sr. No</th> <th>Name of work</th> <th>Estimated Amount (Rs. In. Cr.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Construction of New Fly over bridge on Manek park junction</td> <td>49</td> </tr> <tr> <td>2</td> <td>Construction of New Fly over bridge on Vrundavan junction</td> <td>49</td> </tr> <tr> <td>3</td> <td>Construction of New Fly over bridge on Khodiyaar Nagar junction</td> <td>49</td> </tr> <tr> <td>4</td> <td>Construction of New Fly over bridge on Sardar Estate junction</td> <td>42</td> </tr> <tr> <td>5</td> <td>Construction of New Fly over bridge on Sangam crossing junction</td> <td>42</td> </tr> <tr> <td>6</td> <td>Construction of New Fly over bridge on Vasana road crossing</td> <td>43</td> </tr> </tbody> </table> | Sr. No | Name of work | Estimated Amount (Rs. In. Cr.) | 1 | Construction of New Fly over bridge on Manek park junction | 49 | 2 | Construction of New Fly over bridge on Vrundavan junction | 49 | 3 | Construction of New Fly over bridge on Khodiyaar Nagar junction | 49 | 4 | Construction of New Fly over bridge on Sardar Estate junction | 42 | 5 | Construction of New Fly over bridge on Sangam crossing junction | 42 | 6 | Construction of New Fly over bridge on Vasana road crossing | 43 |
| Sr. No | Name of work | Estimated Amount (Rs. In. Cr.) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Construction of New Fly over bridge on Manek park junction | 49 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Construction of New Fly over bridge on Vrundavan junction | 49 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Construction of New Fly over bridge on Khodiyaar Nagar junction | 49 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Construction of New Fly over bridge on Sardar Estate junction | 42 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Construction of New Fly over bridge on Sangam crossing junction | 42 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Construction of New Fly over bridge on Vasana road crossing | 43 | | | | | | | | | | | | | | | | | | | | | | | | | |

| Source Group | Action | Implementation period (Short / Mid / Long term) | Responsible agency (ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on August -2020 | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|--------------------------|--------------------------------|----------------------|---|--|------------------|--|---|--|----|---------|--------------|----------------------------|---|--|--------|---|---|-------------------------------|--------|--------------|---------------------------|---|---------------------------------|------|
| | | | | | | <table border="1"> <tr> <td></td> <td>Near petrol pump</td> <td></td> </tr> <tr> <td>7</td> <td>Construction of New Fly over bridge Near Sama Pond</td> <td>45</td> </tr> </table> <p>(B) On Going Work :</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Name of work</th> <th>Tender amount (Rs. In Cr.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Genda circle to Manisha chowkadi Fly over Bridge</td> <td>222.18</td> </tr> <tr> <td>2</td> <td>Construction of railway over Bridge from ManjalpurDarbarchokadi to Atladara on Ahmedabad - Mumbai BG Railway line at Vadodara</td> <td>40.99 (Tender under approval)</td> </tr> </tbody> </table> <p>(C) Completed work:</p> <table border="1"> <thead> <tr> <th>Sr. No</th> <th>Name of work</th> <th>Cost of work (Rs. In cr.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Sama - Harani river over Bridge</td> <td>13.8</td> </tr> </tbody> </table> | | Near petrol pump | | 7 | Construction of New Fly over bridge Near Sama Pond | 45 | Sr. No. | Name of work | Tender amount (Rs. In Cr.) | 1 | Genda circle to Manisha chowkadi Fly over Bridge | 222.18 | 2 | Construction of railway over Bridge from ManjalpurDarbarchokadi to Atladara on Ahmedabad - Mumbai BG Railway line at Vadodara | 40.99 (Tender under approval) | Sr. No | Name of work | Cost of work (Rs. In cr.) | 1 | Sama - Harani river over Bridge | 13.8 |
| | Near petrol pump | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Construction of New Fly over bridge Near Sama Pond | 45 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sr. No. | Name of work | Tender amount (Rs. In Cr.) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Genda circle to Manisha chowkadi Fly over Bridge | 222.18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Construction of railway over Bridge from ManjalpurDarbarchokadi to Atladara on Ahmedabad - Mumbai BG Railway line at Vadodara | 40.99 (Tender under approval) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sr. No | Name of work | Cost of work (Rs. In cr.) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Sama - Harani river over Bridge | 13.8 | | | | | | | | | | | | | | | | | | | | | | | | | |

| Source Group | Action | Implementation period (Short / Mid / Long term) | Responsible agency (ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on August -2020 | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|--------------------------|--------------------------------|--|--|--------|--------------|---------------------------|---|---------------------------------------|-------|---|-------------------------------------|----|---|---|----|---------|--------------|--------------------------------|---|--|-------|---|--|-------|---|---|-------|
| | | | | | <p>Completed Widening work (D) : 76.13 Crores</p> <p>Road Projects financial allocation is : A+B+C= 195.89 Crores (details of A, B, and C is given bellow)</p> <p>Proposed work (A) : 66.5 Crores</p> | <p>(D) Completed Widening work :</p> <table border="1"> <thead> <tr> <th>Sr. No</th> <th>Name of work</th> <th>Cost of work (Rs. In cr.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Vadsar Landfill River Bridge widening</td> <td>13.13</td> </tr> <tr> <td>2</td> <td>Shastri Bridge ROB near polytechnic</td> <td>31</td> </tr> <tr> <td>3</td> <td>Vishvamitry Bridge ROB near railway station</td> <td>32</td> </tr> </tbody> </table> <p>Road Projects :</p> <p>Details of the proposed projects, on-going projects and completed project work is mentioned as under.</p> <p>(A) Proposed work :</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Name of work</th> <th>Estimated amount (Rs. In. Cr.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Road From Manisha Crossing To Vasana old Municipal Limit</td> <td>15.00</td> </tr> <tr> <td>2</td> <td>Road From Genda circle to old Municipal Limit Gorwa.</td> <td>35.00</td> </tr> <tr> <td>3</td> <td>Harni Road from Motibhai Patel circle (Harnitalav) to Golden chokdi</td> <td>16.50</td> </tr> </tbody> </table> | Sr. No | Name of work | Cost of work (Rs. In cr.) | 1 | Vadsar Landfill River Bridge widening | 13.13 | 2 | Shastri Bridge ROB near polytechnic | 31 | 3 | Vishvamitry Bridge ROB near railway station | 32 | Sr. No. | Name of work | Estimated amount (Rs. In. Cr.) | 1 | Road From Manisha Crossing To Vasana old Municipal Limit | 15.00 | 2 | Road From Genda circle to old Municipal Limit Gorwa. | 35.00 | 3 | Harni Road from Motibhai Patel circle (Harnitalav) to Golden chokdi | 16.50 |
| Sr. No | Name of work | Cost of work (Rs. In cr.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Vadsar Landfill River Bridge widening | 13.13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Shastri Bridge ROB near polytechnic | 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Vishvamitry Bridge ROB near railway station | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sr. No. | Name of work | Estimated amount (Rs. In. Cr.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Road From Manisha Crossing To Vasana old Municipal Limit | 15.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Road From Genda circle to old Municipal Limit Gorwa. | 35.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Harni Road from Motibhai Patel circle (Harnitalav) to Golden chokdi | 16.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Source Group | Action | Implementation period (Short / Mid / Long term) | Responsible agency (ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on August -2020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|---|--------------------------|--------------------------------|-------------------------------------|---|---------|--------------|----------------------------|---|---|-------|---|--|------|---|---------------|------|---|---|---|----------|-------|---|--|---|---|-------|---|---|---|--|------|----|--|
| | | | | | Ongoing work (B) : 113.85 Crores | <p>(B) Ongoing works:</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Name of work</th> <th>Tender amount (Rs. In Cr.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Airport circle to saradar estate char rasta road widening</td> <td>11.35</td> </tr> <tr> <td>2</td> <td>Sardar estate char rasta to Gurukul char rasta road widening</td> <td>5.28</td> </tr> <tr> <td>3</td> <td>R C Dutt Road</td> <td rowspan="2">21.2</td> </tr> <tr> <td>4</td> <td>Road From Havmore Circle to AkotaDandiya Bazar Bridge</td> </tr> <tr> <td>5</td> <td>BPC Road</td> <td rowspan="2">32.69</td> </tr> <tr> <td>6</td> <td>Road From Amit nagarcircle toDumad crossing.</td> </tr> <tr> <td>7</td> <td>Road From Vrundavan char rasta to waghodiya by pass</td> <td rowspan="2">37.52</td> </tr> <tr> <td>8</td> <td>Road From Sardar estate char rasta to ajwa bypass</td> </tr> <tr> <td>9</td> <td>Road From Soma Talav to Kapurai bypass up to municipal limit</td> <td rowspan="2">5.81</td> </tr> <tr> <td>10</td> <td>Sama canal parallel main road (O.G. Area – South Side)</td> </tr> </tbody> </table> | Sr. No. | Name of work | Tender amount (Rs. In Cr.) | 1 | Airport circle to saradar estate char rasta road widening | 11.35 | 2 | Sardar estate char rasta to Gurukul char rasta road widening | 5.28 | 3 | R C Dutt Road | 21.2 | 4 | Road From Havmore Circle to AkotaDandiya Bazar Bridge | 5 | BPC Road | 32.69 | 6 | Road From Amit nagarcircle toDumad crossing. | 7 | Road From Vrundavan char rasta to waghodiya by pass | 37.52 | 8 | Road From Sardar estate char rasta to ajwa bypass | 9 | Road From Soma Talav to Kapurai bypass up to municipal limit | 5.81 | 10 | Sama canal parallel main road (O.G. Area – South Side) |
| Sr. No. | Name of work | Tender amount (Rs. In Cr.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Airport circle to saradar estate char rasta road widening | 11.35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Sardar estate char rasta to Gurukul char rasta road widening | 5.28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | R C Dutt Road | 21.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Road From Havmore Circle to AkotaDandiya Bazar Bridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | BPC Road | 32.69 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Road From Amit nagarcircle toDumad crossing. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Road From Vrundavan char rasta to waghodiya by pass | 37.52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Road From Sardar estate char rasta to ajwa bypass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Road From Soma Talav to Kapurai bypass up to municipal limit | 5.81 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Sama canal parallel main road (O.G. Area – South Side) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Source Group | Action | Implementation period (Short / Mid / Long term) | Responsible agency (ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on August -2020 | | | | | | | | | |
|--------------|--|---|--------------------------|--------------------------------|--|---|---------|--------------|---------------------------|---|---|------|---|--|------|
| | | | | | Completed works with widening (C) : 15.54 Crores | <p>(C) Completed works with widening:</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Name of work</th> <th>Cost of work (Rs. In cr.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Vadasar bridge to sushen circle road widening</td> <td>8.44</td> </tr> <tr> <td>2</td> <td>Tarasali vegetable market to sushen circle road widening</td> <td>7.10</td> </tr> </tbody> </table> | Sr. No. | Name of work | Cost of work (Rs. In cr.) | 1 | Vadasar bridge to sushen circle road widening | 8.44 | 2 | Tarasali vegetable market to sushen circle road widening | 7.10 |
| Sr. No. | Name of work | Cost of work (Rs. In cr.) | | | | | | | | | | | | | |
| 1 | Vadasar bridge to sushen circle road widening | 8.44 | | | | | | | | | | | | | |
| 2 | Tarasali vegetable market to sushen circle road widening | 7.10 | | | | | | | | | | | | | |
| | Deploy traffic police for smooth traffic flow at identified vulnerable areas | Short | Traffic Police, VMC | 1 Year | ---- | Presently, traffic police is already provided at the major junction points. | | | | | | | | | |
| | Prepare plan for construction of expressways/bypasses to avoid congestion due to non-destined vehicles | Long | VMC | 3 Years | | By-pass road to Vadodara is already provided. 70 m wide Sevasi – Ataladara by-pass road is proposed. | | | | | | | | | |
| | Steps for promoting & operating battery operated vehicles | Long | RTO | 3 Years | ---- | Below is the details provided by the concern agency in the year 2016, details of Vehicles running on Battery: 173. There is no increase in number of battery operated vehicles. | | | | | | | | | |
| | Synchronize traffic movements/introduce intelligent traffic systems for lane-driving | Mid | VMC, Traffic police, | 2 Years | 35 lakh Funding sought from MoEF&CC | <ul style="list-style-type: none"> Total numbers of traffic signal in Vadodara city are 45, out of which 41 are with timer. There are 04 traffic signals without timer. There are 28 points without traffic signal. | | | | | | | | | |

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| Source Group | Action | Implementation period (Short / Mid / Long term) | Responsible agency (ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on August -2020 | | | | | | | | | | | | | | | | | |
|--------------|--|---|---|--------------------------------|----------------------|--|---------|----------|------|----|---------|-----|----|-------|-----|----|-----------|----------------|----|--------|-----|----|------|
| | | | | | under NCAP | <ul style="list-style-type: none"> 32 traffic signals are operational on cross roads. Reported to VMC by Traffic Branch for installing signals at points where presently there is no traffic signal. | | | | | | | | | | | | | | | | | |
| | Installation of remote sensor based PUC system | Long | RTO | 3 Years | No plan submitted | Total PUC stations are 64 Petrol : 40 Diesel: 24 All 64 PUC stations are connected with NIC software. | | | | | | | | | | | | | | | | | |
| | CNG stations for private vehicles and auto-rickshaws | Short | Vadodara Gas Limited, VMC, Adani Gas Limited, | 1 Year | 50.93 Crores by VGL | 06 (AGL) + 18 (VGL) CNG stations are in operation AGL : 02 Online Station, 04 Daughter Stations (Maintaining Status quo) <ul style="list-style-type: none"> Expansion proposal is pending with VMSS since 27/11/2014. VGL: 02 Online station, 03 Mother Stations, 13 Daughter Booster Stations. It is proposed to establish another 11 CNG stations during the year 2020-2021. Details of Proposed 11 CNG station | | | | | | | | | | | | | | | | | |
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| 1. | Alamgir | DBS | | | | | | | | | | | | | | | | | | | | | |
| 2. | Jarod | DBS | | | | | | | | | | | | | | | | | | | | | |
| 3. | Gajrawadi | Mother Station | | | | | | | | | | | | | | | | | | | | | |
| 4. | Karjan | DBS | | | | | | | | | | | | | | | | | | | | | |
| 5. | Vadu | DBS | | | | | | | | | | | | | | | | | | | | | |

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|--------------|--------|---|--------------------------|--------------------------------|----------------------|--|---|----------------|
| | | | | | | 6. | Vega | DBS |
| | | | | | | 7. | Mahuvad | DBS |
| | | | | | | 8. | Vasna - Bhayali Road | DBS |
| | | | | | | 9. | Desar | DBS |
| | | | | | | 10. | ChhotaUdepur | DBS |
| | | | | | | 11. | Muval | DBS |
| | | | | | | Existing CNG Station details: | | |
| | | | | | | Sr. No. | Location | Type |
| | | | | | | 1. | Subhanpura, Racecourse, Vadodara - | Mother Station |
| | | | | | | 2. | Near GSFC, Dashrath Village, Vadodara - | Mother Station |
| | | | | | | 3. | Nizampura, Vadodara | Mother Station |
| | | | | | | 4. | Near Bhailal Amin Hospital, , Gorwa | Online Station |
| | | | | | | 5. | Harinagar Char Rasta, Gotri Road, Vadodara | DBS |
| | | | | | | 6. | DumadSavli Highway, Vadodara | DBS |
| | | | | | | 7. | Lal Guru Farm, Raypura Road, Bhaili, Vadodara | DBS |
| | | | | | | 8. | State Highway No.11, Village Kelanpur, Vadodara | DBS |
| | | | | | | 9. | At & Po Bhilapur State Highway No.11, Vadodara | DBS |

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| | CNG stations for GSRTC & Vinayak Logistic. | Long | Adani Gas Limited, Vadodara Gas Limited, GSRTC, VMC | 3 Years | ---- | There are 3 dedicated CNG stations for GSRTC buses & City Vinayak Bus Service at Race course, Dashrath and Nizampura provided by VGL and presently meeting with the requirements. However, there are no buses of Vadodara GSRTC division plying on CNG. AGL to maintain status quo. | | | | | | | | | | | | | | | | | | | | | | | | |
| | Entire fleet of buses run by City Vinayak Logistic | Short | VMC, City Vinayak | 1 Year | ---- | Existing fleet details are as under: <ul style="list-style-type: none"> • Diesel operated A.C. buses : 20 | | | | | | | | | | | | | | | | | | | | | | | | |

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|--------------|--|---|--------------------------|--------------------------------|---|--|
| | CNG mode | | | | | <ul style="list-style-type: none"> • CNG operated buses : 125 • CNG operated buses under CM grant : 20 Thus, total 145 buses are plying on CNG and consuming around 1,00,000 Kg of CNG/Month. |
| | Increase bus services by augmenting contract buses and increasing frequency of service. | Short | VMC, City Vinayak | 1 Year | ---- | Presently entire VMC area is covered through this bus service – City Vinayak operated on contract basis. Contract is for ten years since year 2017. Work related to extending the services to the Seven villages recently incorporated in VMC limit is going on. |
| | Entire fleet on Ahmedabad-Vadodara route on CNG mode and buses being operated by Vadodara division shall be converted to CNG mode in phase manner. | Mid | GSRTC | 2 Years | 40 Crores for Electric Buses & 28 Crores for BS VI compliant diesel buses | Presently, no diesel buses plying on road are more than 10 years old. Fleet operating – passes from Vadodara (Central Bus Station, Kirtistambh and Bhutadizampa) are 1479 * 2 trips. Vadodara depot has 68 buses whereas Vadodara Division has 383 buses. There are no buses operating on CNG. Divisional Controller vide their email dt. 29/07/2020 that purchasing of CNG chasis/vehicle is policy matter and will convey it to their higher management. However, it has been informed that Process of allocating <ul style="list-style-type: none"> • 100 BS VI compliant diesel buses are going on and expected within 1 year. • 20 electric buses (9 m & 12 m long) are going on and expected within 2 years. |
| | Expanding network of city bus To promote public | Short | VMC, City Vinayak | 1 Year | ---- | Presently 165 buses are covering the VMC area through 1800 fleet (900 * 2). Work related to extending the services to the Seven villages |

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| | transportation system, parking charges may be made costlier | | | | | recently incorporated in VMC limit is going on. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Bypassing of traffic in peak hours at major traffic intersections, near railway station and interstate bus terminals | Short | VMC, RTO, Traffic Police | 1 Year | | <p>Traffic monitoring and Public alert system should be developed to avoid traffic jam.</p> <p>At present 16 places are identified by VMC as high traffic spot</p> <table border="1"> <thead> <tr> <th>Sr.No.</th> <th>Location</th> </tr> </thead> <tbody> <tr><td>1.</td><td>Harinagar cross road</td></tr> <tr><td>2.</td><td>Fatehganj cross road</td></tr> <tr><td>3.</td><td>IPCL circle</td></tr> <tr><td>4.</td><td>Genda Circle cross road</td></tr> <tr><td>5.</td><td>Ambedkar Circle cross road</td></tr> <tr><td>6.</td><td>Chakali circle cross road</td></tr> <tr><td>7.</td><td>Malhar point cross road</td></tr> <tr><td>8.</td><td>Havemore cross road</td></tr> <tr><td>9.</td><td>Manisha cross road</td></tr> <tr><td>10.</td><td>Sushen Circle</td></tr> <tr><td>11.</td><td>Aksharchok</td></tr> <tr><td>12.</td><td>Tarsali Vegetable market</td></tr> <tr><td>13.</td><td>Sangam cross road</td></tr> <tr><td>14.</td><td>AkotadandiyaBajar cross road</td></tr> <tr><td>15.</td><td>Vrundavan Cross road</td></tr> <tr><td>16.</td><td>Kaladhoda circle</td></tr> </tbody> </table> | Sr.No. | Location | 1. | Harinagar cross road | 2. | Fatehganj cross road | 3. | IPCL circle | 4. | Genda Circle cross road | 5. | Ambedkar Circle cross road | 6. | Chakali circle cross road | 7. | Malhar point cross road | 8. | Havemore cross road | 9. | Manisha cross road | 10. | Sushen Circle | 11. | Aksharchok | 12. | Tarsali Vegetable market | 13. | Sangam cross road | 14. | AkotadandiyaBajar cross road | 15. | Vrundavan Cross road | 16. | Kaladhoda circle |
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| 10. | Sushen Circle | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11. | Aksharchok | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12. | Tarsali Vegetable market | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 15. | Vrundavan Cross road | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16. | Kaladhoda circle | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ban on supply of loose 2-T oils at petrol pumps and | Short | Civil Supply, Oil Companies | 1 Year | ---- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Source Group | Action | Implementation period (Short / Mid / Long term) | Responsible agency (ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on August -2020 |
|--|---|---|-----------------------------|--------------------------------|---|---|
| | outside | | | | | |
| | Introduction of pre-fuel oil and expansion of pre-mixed outlets. | Long | Civil Supply, Oil Companies | 3 Years | ---- | |
| | Introduction of Bharat VI compliant fuel | Short | Oil Companies | Less than 1 Year | ---- | IOC has already provided infrastructure facilities for producing Bharat VI compliant fuel and has already started supplying since 01/04/2020. |
| | Ensuring Ethanol blended fuel as per the State Policy | On going | Civil Supply, Oil Companies | ---- | ---- | Blending of 10% ethanol is started. |
| Re-suspension of road dust and other fugitive emissions control | Prepare plan for creation of green buffers and paving along the traffic corridors | Mid | VMC | Continuous Process | 35 lakhs Fund sought from MoEF&CC under NCAP. | Presently, regular routine maintenance work is being carried out. Bio-diversity park at Govindnagar, New garden development at Newly added 7 villages in corporation limit, development of green and urban plots with Miyawaki Plantation, tree plantation at road side and shrub plantation in central verge of 25 km area in newly added villages in corporation limit, development of landscape island opposite railway station proposed. |
| | Maintain potholes free roads for free-flow of traffic | Short | VMC, Transport Dept. | Continuous Process | | |
| | Introduce water fountains at major traffic intersection, wherever feasible | Long | VMC | Continuous Process | 15.50 Crores Fund sought from XV-FC | |
| | Greening of open areas, gardens, community places, schools and housing societies | Long | VMC | Continuous Process | | |
| | Blacktopping of metalled road including pavement of | On going | VMC | Ongoing | | |

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| | road shoulders | | | | | |
| | Increase frequency of mechanized cleaning of road and sprinkling of water on roads. Identify road stretches with high dust generation. | Mid | VMC | 2 Years | <p>Sweeper Machines : Rs. 18.09 Crores and Road Washer Machines : Rs. 21.00 Crores</p> <p>Fund sought from XV-FC</p> | <p>Presently, 8 Numbers of road sweeper machines are operational in VMC limit for suppression of dust particles.</p> <p>Additional, 12 numbers of sweeper machines of latest technology proposed (Purchase cost : Rs. 8.76 Crores + O & M Cost : Rs. 9.33 Crores)</p> <p>Presently there is no road washer machine. Road washer machines for cleaning of dust from road (4 road washer machine for 4 zones. (Purchase cost : Rs. 5.00 Crores + O & M Cost : Rs. 16.00 Crores)</p> |
| Construction Activities | Enforcement of construction & Demolition Rules | Short | VMC,GPCB | 1 Year | <p>Rs. 400/MT</p> <p>Rs. 35 Lakhs for C & D wastes management – Funding sought from XV-FC</p> <p>Rs. 48 Lakhs for Construction of advanced C & D wastes management site –</p> | <ul style="list-style-type: none"> • Circular issued for levying administrative charges of C & D waste. • VMC published Notification for proper handling & management of construction & demolition waste as per the Construction & Demolition Waste Management Rules-2016. • In this VMC notified 2 locations for disposal of Construction & Demolition Waste wide notification pro no. 687/2018-19. • VMC allotted work for C&D Waste collection and treatment to DNP Infrastructure Pvt. Ltd. Collection started by agency. |

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| | | | | | Funding sought from XV-FC | |
| Biomass and garbage burning | Launch extensive drive against open burning of bio-mass, crop residue, garbage, leaves, etc. | Short | VMC | 1 Year | 45 Crore/Year Fund sought from XV-FC | <ul style="list-style-type: none"> VMC has implemented three tier garbage collection systems as a part of integrated solid waste management plan including door to door waste collection, solid waste collection by container lifting and direct collection from open spot / nuisance spot. Total 289 door to door vehicles are utilized for Door to Door waste collection with compartmentalized arrangement of collection of Biodegradable (Wet) and Non Bio degradable waste (Dry waste) and 111 open/nuisance spot vehicles are utilized for open spot collection. |
| | | | | | 62 Crores | <ul style="list-style-type: none"> As per capping and social upliftment component of SWM DPR, VMC has awarded work order to M/S Zigma Global Enviro Pvt. Ltd. for bioremediation of legacy waste at Atladara. Now after 2 years total 3.75 lakh MT legacy waste is remediated and total 17 acres of land reclaimed. Total project cost = Rs. 23.61 Crores. |
| | | | | | 48 Crores | <ul style="list-style-type: none"> At now, landfill Phase-2 filled at saturation capacity, hence VMC have allotted LOI to M/S Zigma Global Environ Pvt. Ltd. to Bio-remediate 4.0 lakh MT of legacy waste in landfill Phase-1 (Project Cost = 34 Crore). After completion of Project, landfill Phase-1 will be reused for landfilling of MSW. In Landfill development and Related Machinery |

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| | | | | | | Component of SWM DPR, VMC have invited a tender for Construction and development of landfill Phase-2 and same work sent in standing committee for approval. Total Project Cost = 43 Crore |
| | | | | | 240 Crores (PPP Mode) | <ul style="list-style-type: none"> 1000 TPD Capacity Waste to Energy Project Facility at R.S. No. 346, Makarpura. Under which work of Concession agreement signed and Power Purchase Agreement, land lease agreement signed and construction work is under progress. Plant will be operational by March – 2021. At now, Pre-processing of MSW is operational from 2nd November, 2018 having capacity of 700 MT/Day. |
| | | | | | PPP Mode | <ul style="list-style-type: none"> Small scale plants of 15 TPD and 5 TPD based on Bio-methanation technology are operational for Treatment of Hotel Kitchen Biodegradable Waste from Bulk Waste Generators at Voragamdi and Gajarawadi accordingly. |
| | | | | | Lakh 45.00 Fund sought from XV-FC | <ul style="list-style-type: none"> Organic Waste Converter Machines of 0.1 and 0.5 TPD are placed at BWG locations to illustrate Onsite Composting. |
| | | | | | Crore 6.0 (PPP Mode) | <ul style="list-style-type: none"> VMC allotted LOI to M/S Ecovision Pvt. Ltd. for collection & treatment of Plastic waste. Work commenced from June-2019. Till date total 70.00 MT plastic waste collected and recycled by M/S Ecovision Pvt. Ltd. |
| | | | | | Rs. 0.90/kg (PPP Mode) | <ul style="list-style-type: none"> VMC have allotted W.O. to M/S Snel Bioscience Pvt. Ltd. to collect Hotel-kitchen waste collection and transportation from 21st January, 2019. Agency shall collect Rs. 0.90/KG directly from the waste generators, hence no any financial burden bear by VMC for this |

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| | | | | | | work. |
| | Regular check and control of burning of municipal solid wastes | On going | VMC | Continuous Process | ---- Rs. 8.25 Crores Fund sought from XV-FC | Wards Sanitation team regularly check beat of each sweeper. It is proposed to provide automatic spraying and fogging system for land fill site. |
| | Proper collection of horticulture waste (biomass) and its disposal following composting-cum gardening approach | On going | VMC | Continuous Process | Lakh 45 Fund sought from XV-FC | 3 Nos. of OWC Machine (500 Kg capacity) installed for onsite composting of the Garden waste. |
| Industries | Action against non-complying industrial units | On going | GPCB, Industrial association | Continuous Process | ---- | Regular monitoring is being carried out. Suitable actions are taken based on the severity of the non-compliances including issuance of closure order, levying bank guarantee as well as environment damage compensation etc. |
| | Restriction on using unauthorized fuel | On going | GPCB, Industries Associations, Industrial Units | Continuous Process | ---- | Industrial units shall use authorized fuel as consented and shall not use any unauthorized fuel. GPCB has already notified a list of approved fuel and GPCB is carrying out monitoring of the industries. |
| | Strengthening of air pollution control measures and ensuring emission standards | Short | GPCB, Industrial units, Industries Associations | 1 Year | ---- | Industrial units consuming solid fuel required to upgrade air pollution control system based on the fuel consumption and / or capacity of utility by installing ESP / bag filters / multi cyclone separator so that ambient air in an area met with the AAQ norms of PM ₁₀ and PM _{2.5} . |

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| Source Group | Action | Implementation period (Short / Mid / Long term) | Responsible agency (ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on August -2020 |
|--------------|------------------------------|---|---|--------------------------------|----------------------|--|
| | | | | | | Guide line for coal handling, circular dt.27/08/2019 regarding usage of 20% agro briquette / bio-fuel / briquette as well as office order on provision of additional scrubber shall also be complied with. |
| | Control of Fugitive Emission | Short | GPCB, Industrial units, Industries Associations | Continuous Process | ---- | <p>Within city limit of Vadodara, there are total 47 air pollution potential industrial units out of which 28 are red category industry.</p> <p>Good practices like cleaner production and cleaner technology to be adopted in fuel handling, process control in closed system and housekeeping. For the control of fugitive emission drums to be placed within closed room and chemical storage tanks to be provided with scrubbing system.</p> |
| | Adoption of cleaner fuel | Mid | GPCB, VGL, Industrial units | 2 Year | ---- | <p>Industrial units using solid fuel shall adopt cleaner fuel wherever it is feasible considering availability of gas and economics.</p> <p>Presently, AGL is supplying PNG to 89 industries of GIDC, Nandesari. PNG supplied is : (Maintaining Status quo)</p> <p>FY 2018-19 : 10826470 SCM FY 2019-20 : 10628701 SCM FY 2020-21 (Till June) : 2185290 SCM</p> <p>Presently, VGL has provided</p> <ul style="list-style-type: none"> • 2573 commercial connections and expansion plan for the year 2020 – 2021 is another another 30 connections. • 2 industrial connection and expansion plan for the year |

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|------------------------------|---|---|--------------------------|--------------------------------|--|---|--------|-------------------------------|-----------------|----|---|--|----|--|--|--------|------------------------------------|-----------------|----|---|---------------------------|--------|-----------------------------|-----------------|----|---|---------------------------|
| | | | | | | 2020 – 2021 is another 10 connections. | | | | | | | | | | | | | | | | | | | | | |
| Strengthening of AAQM | Installation & Operation of CAAQMS at Vadodara | Mid | GPCB / VMC | 2 Year | 500 Lakhs (400 Lakhs for 3 stations (Supply, installation & commissioning, operation and maintenance of CAAQMS under XV – FV 2 stations under CPSU Fund | As per criteria on the basis of Census 2011, it is required to establish total 5 CAAQMS. Out of proposed 5 CAAQMS, 2 are proposed under CPSU fund whereas VMC has requested for funding for additional three CAAQMS from MoEF&CC budget under NCAP. Details of the same are given below. <table border="1"> <thead> <tr> <th>Sr. No</th> <th>Locations of Residential area</th> <th>Funding Details</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Sir Sayajirao Nagar Gruh, Akota, Vadodara</td> <td>MoEF&CC budget under NCAP and CPSU funding</td> </tr> <tr> <td>2.</td> <td>VMSS Karelibaug Water Tank, Karelibaug, Vadodara</td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Sr. No</th> <th>Locations of Traffic dominant area</th> <th>Funding Details</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>City Command Centre, BadamadiBaug, Vadodara</td> <td>MoEF&CC budget under NCAP</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Sr. No</th> <th>Locationsof Commercial area</th> <th>Funding Details</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Gandhinagar Gruh/Jubilee bag, Sur Sagar, Vadodara</td> <td>MoEF&CC budget under NCAP</td> </tr> </tbody> </table> | Sr. No | Locations of Residential area | Funding Details | 1. | Sir Sayajirao Nagar Gruh, Akota, Vadodara | MoEF&CC budget under NCAP and CPSU funding | 2. | VMSS Karelibaug Water Tank, Karelibaug, Vadodara | | Sr. No | Locations of Traffic dominant area | Funding Details | 1. | City Command Centre, BadamadiBaug, Vadodara | MoEF&CC budget under NCAP | Sr. No | Locationsof Commercial area | Funding Details | 1. | Gandhinagar Gruh/Jubilee bag, Sur Sagar, Vadodara | MoEF&CC budget under NCAP |
| Sr. No | Locations of Residential area | Funding Details | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Source Group | Action | Implementation period (Short / Mid / Long term) | Responsible agency (ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on August -2020 | | | | | | |
|-------------------------|--|---|--------------------------------|--------------------------------|--------------------------------------|--|--------|------------------------------|-----------------|----|---|--------------|
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| 1. | VMC Urban PHC, Vadsar, Makarpura GIDC, Vadodara | CPSU funding | | | | | | | | | | |
| | Source apportionment study | Mid | GPCB, IIT / NIT / GEMI | 2 Year | 80 Lakhs Fund sought from XV-FC | VMC has requested for funding from MoEF&CC budget under NCAP. | | | | | | |
| Public Awareness | Prompting of use of LPG as domestic fuel instead of burning coal, wood and cow dung cakes. | Short | VGL, VMC | On going | | VGL is conducting awareness through publishing hoardings, distribution of pamphlets at their dispensing stations. | | | | | | |
| | Launch public awareness campaign for pollution control, vehicle maintenance, minimizing use of personal vehicles, lane disciplines, etc. | Short | CoT, Traffic police, GPCB, VMC | 1 Year | 100 Lakhs Fund sought from XV-FC. | ---- | | | | | | |
| Others | Air Quality Index to be calculated and disseminated to be people | Short | VMC, GPCB | 1 Year | | Presently there are 05 AAQMS operating under NAMP and additional 03 stations under SAMP. Two CAAQMS are proposed under CPSU and funding for additional three | | | | | | |

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|--------------|--|---|--------------------------|--------------------------------|----------------------|---|--------|-------------------------------|-------------------------------------|----|-----------------------|---|----|--------------|----|------------------------|----|-------------------------|----|----------------------------------|----|------------------|----|--------------------|----|---------------------------|
| | through website and other media (on maximum weekly basis for manually operated monitoring stations and real time basis for continuous monitoring stations) | | | | | <p>CAAQMS is sought by VMC from MoEF&CC under NCAP. Large scale industries like IOC, GSFC, RIL also have their own AAQMS including CAAQMS provided by Nandesari Industries Association. Monthly average and yearly average data are being compiled and reviewed. Results for PM₁₀ show higher than norm and PM_{2.5} show near to the limit.</p> <p style="color: #00AEEF;">VMC has also provided continuous environment sensors at various eight locations, i.e.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 5%;">Sr. No</th> <th style="width: 60%;">Environment sensors locations</th> <th style="width: 35%;">Parameters showing on the dashboard</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Gorwa Pumping Station</td> <td rowspan="8"> 1. Temperature 2. Humidity 3. AQI 4. O3 Parameter of AQI is NO₂, CO, SO₂, O₃, PM_{2.5}, PM₁₀ in (µg/m³) </td> </tr> <tr> <td>2.</td> <td>Mangal Bazar</td> </tr> <tr> <td>3.</td> <td>Transpek Industry Area</td> </tr> <tr> <td>4.</td> <td>Atladra Pumping Station</td> </tr> <tr> <td>5.</td> <td>Bapd (Office of the Ward-9, VMC)</td> </tr> <tr> <td>6.</td> <td>Chhani Toll Naka</td> </tr> <tr> <td>7.</td> <td>Makarpura G.I.D.C.</td> </tr> <tr> <td>8.</td> <td>Jambuva Police Check Post</td> </tr> </tbody> </table> <p>for the continuous monitoring of various six air quality parameters viz. NO₂, CO, SO₂, O₃, PM_{2.5}, PM₁₀. The values are made available through online mobile application.</p> <p>Ambient air quality measured under NAMP/SAMP of Vadodara during COVID 19 Janata Curfew and National</p> | Sr. No | Environment sensors locations | Parameters showing on the dashboard | 1. | Gorwa Pumping Station | 1. Temperature 2. Humidity 3. AQI 4. O3 Parameter of AQI is NO ₂ , CO, SO ₂ , O ₃ , PM _{2.5} , PM ₁₀ in (µg/m ³) | 2. | Mangal Bazar | 3. | Transpek Industry Area | 4. | Atladra Pumping Station | 5. | Bapd (Office of the Ward-9, VMC) | 6. | Chhani Toll Naka | 7. | Makarpura G.I.D.C. | 8. | Jambuva Police Check Post |
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| 2. | Mangal Bazar | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | Transpek Industry Area | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | Atladra Pumping Station | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 6. | Chhani Toll Naka | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. | Makarpura G.I.D.C. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. | Jambuva Police Check Post | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Source Group | Action | Implementation period (Short / Mid / Long term) | Responsible agency (ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on August -2020 |
|--------------|---|---|--------------------------|--------------------------------|---|--|
| | | | | | | <p>Lockdown suggested as :</p> <ul style="list-style-type: none"> • 43.9% reduction in PM₁₀, 37.3% reduction in PM_{2.5}, 52.0% reduction in SO₂ and 53.2% decrease in NO₂ in industrial area; • 48.7% reduction in PM₁₀, 49.4% reduction in PM_{2.5}, 64.4% reduction in SO₂ and 60.2% decrease in NO₂ in residential area; • 62.7% reduction in PM₁₀, 56.3% reduction in PM_{2.5}, 57.6% reduction in SO₂ and 53.3% decrease in NO₂ in commercial area. • Thus, overall trend for decrease was established as >Residentialarea/Commercial area>Industrial area. |
| | Engage with concerned authorities on continual basis for maximizing coverage of LPG/PNG for domestic and commercial cooking with target of 100 % coverage | Short | VMC, VGL, Civil Supply | 1 Year | 27.57 Crores by VGL including networking cost for industries also | <p>DSO: 100% target has been achieved through 70,854 LPG connection issued under “Pradhan MantriUjjwalaYojana”.</p> <p>VGL: Presently as on June 20, there are 1,51,482 domestic connections provided by VGL through network of MDPE pipeline 2270.49Kms. and 53.80 Kms of steel pipeline. Expansion plan for the year 2020 -2021 is another 26,000 domestic connections.</p> <p>AGL:Presently there are 580 domestic connections are provided by AGL through MDPE network of 10.79 KmsatKoyali Village. (Maintaining Status quo)</p> |

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|--------------|--------------------------------|---|--------------------------|--------------------------------|------------------------------------|--|
| | Electric/Gas based crematorium | Mid | VMC | 2 Year | 35 Lakhs Funding sought from XV-FC | There are total 22 crematoriums wherein 14 are gas / electric pyres where as 75 are casting pyres. |

ACTION PLAN FOR CONTROL OF AIR POLLUTION
IN CITY OF GUJARAT
(RAJKOT)

BY

GUJARAT POLLUTION CONTROL BOARD

ParyavaranBhawan, Sector 10-A,

Gandhinagar

Action Plan for Control of Air Pollution in City of Gujarat (Rajkot)

Preamble:

Rajkot is Gujarat's fourth -largest city with a population of 1.4 million as per the 2011 census. Rajkot is situated in the middle of the peninsular Saurashtra in central plains of Gujarat State of Western India at a height of 128 m above mean sea level. It lies between latitude 22°20'9.75"N and longitude 70°47'49.35"E. Rajkot is the one of the largest city in Gujarat in terms of population as well as in area. Rajkot is the 28th urban agglomeration in India and is ranked as 22nd in "World's fastest growing cities & urban areas" for the period 2006 to 2020. Looking at its growth rate and rapid expansion, there is a pressing need to reconsider and redirect the development and growth patterns in the next decade. Rajkot, since its foundation has been major urban centre, it is the centre for social, cultural, commercial, educational, political and industrial activities for the whole of Saurashtra region. In 1646 AD a permanent settlement had begun further the city was ruled by various Hindu and Muslim kings. In 1822 AD East India Company established a khothi for the first time, first railway line in Kathiawar was establish during 1872-73 AD in Rajkot. The Golden period of Rajkot started from the time of Sir Lakhajiraj (i.e. 1905 AD) which shows institutions, residential areas and markets being developed, special school and libraries for girls were established. Rajkot became the capital of Saurashtra region with the end of the British rule and the most prosperous period of Rajkot began. The decade since 1947 A.D. saw a phenomenal increase in the population and size of Rajkot and its all round development in education, industry, commerce, culture, etc. Today, it is a major small scale industrial & trade hub in the whole Saurashtra region. Rajkot is strategically located in the centre of Suarashtra Region in the Aji basin. Rajkot is spread on both banks of Aji River which cuts through the city. The city is well connected not only to major towns within the state but also to neighboring states through strong transportation linkages all by rail, and road. Engineering & Construction are the main industries of Rajkot of today.

The major sources of air pollution in Rajkot city are road dust, vehicular emission, domestic fuel burning, open waste burning, construction activities, industrial emissions etc. Gujarat Pollution Control is regularly monitoring the ambient air quality at Rajkot through 3 manual stations operated as per CPCB guidelines under NAMP & SAMP. Particulate Matter (PM10 & PM2.5) has been identified as main air pollutant as it is found above the prescribed national standards, as per Annexure-1.

This is mainly due to re-suspension of road dust, emission from vehicles, construction activities, burning of domestic fossil fuels, open burning of solid wastes, transportation of construction materials such as sand, soil

| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|--------------|--|---|-------------------------|--------------------------------|---|--|
| Vehicles | Launch extensive drive against polluting vehicles for ensuring strict compliance | Ongoing | RTO,CoT, Traffic police | Continuous Process | From regular budget of the concerned department | <p>Below is the details provided by the concern agency up to December-2020. Number of total(working+ non working condition) vehicles :2198536, as per RTO Vahan Report.</p> <p>Motor Cycle: 1389516 Moped: 314338 LMV: 255278 Truck :36055 Tanker: 1984 Van: 43583 ARP: 33196 Passenger Bus:533 Maxi/Taxi Cab: 2826 Tractor: 7260 Trailor: 49935 School/Staff bus: 1064 Passenger Van: 469 Ambulance: 495 Jeep:4993 3-wheeler(P &G):3601 LGV:2065 MGV:132 Other:51213</p> <p>Below is the details provided by the concern agency up to December-2020. Number of total vehicles are working condition, as per RTO</p> |

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| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------------|---|-------------------------|--------------------------------|----------------------|---|--------|-----------------|----------------|---|--------|--------|---|--------|---------|---|----------|-----|---|---------|-----|---|----------|---|------------|-------|---|------------|------|---|----------|---|---|-------|----|----|---------------|-----|----|---------------|------|----|--------|------|-------|--|-------------|
| | | | | | | <p>Rajkot Vahan Report.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">Sr.No.</th> <th style="width: 45%;">Detail of Fuel.</th> <th style="width: 50%;">No of vehicles</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Diesel</td> <td>202555</td> </tr> <tr> <td>2</td> <td>Petrol</td> <td>1076648</td> </tr> <tr> <td>3</td> <td>CNG Only</td> <td>407</td> </tr> <tr> <td>4</td> <td>BATTERY</td> <td rowspan="2">317</td> </tr> <tr> <td>5</td> <td>Electric</td> </tr> <tr> <td>6</td> <td>Petrol/CNG</td> <td>94062</td> </tr> <tr> <td>7</td> <td>Petrol LPG</td> <td>3598</td> </tr> <tr> <td>8</td> <td>LPG Only</td> <td>6</td> </tr> <tr> <td>9</td> <td>Solar</td> <td>23</td> </tr> <tr> <td>10</td> <td>Petrol Hybrid</td> <td>848</td> </tr> <tr> <td>11</td> <td>Diesel Hybrid</td> <td>1199</td> </tr> <tr> <td>12</td> <td>Others</td> <td>8150</td> </tr> <tr> <td colspan="2">Total</td> <td>1387813no's</td> </tr> </tbody> </table> <p>Re-registration of non-transport vehicle is done after 15 years from the date of registration, if motor vehicle is fit for road worthiness.</p> <p>Renewal of certificate of fitness in respect of transport vehicles: 2 years for vehicles up to 8 year sold and 1 year for vehicle sold more than 8 years, if the motor vehicles is fit for road worthiness.</p> | Sr.No. | Detail of Fuel. | No of vehicles | 1 | Diesel | 202555 | 2 | Petrol | 1076648 | 3 | CNG Only | 407 | 4 | BATTERY | 317 | 5 | Electric | 6 | Petrol/CNG | 94062 | 7 | Petrol LPG | 3598 | 8 | LPG Only | 6 | 9 | Solar | 23 | 10 | Petrol Hybrid | 848 | 11 | Diesel Hybrid | 1199 | 12 | Others | 8150 | Total | | 1387813no's |
| Sr.No. | Detail of Fuel. | No of vehicles | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Diesel | 202555 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Petrol | 1076648 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | CNG Only | 407 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | BATTERY | 317 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Electric | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Petrol/CNG | 94062 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Petrol LPG | 3598 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | LPG Only | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Solar | 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Petrol Hybrid | 848 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Diesel Hybrid | 1199 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | Others | 8150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | 1387813no's | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|--------------|---|---|-------------------------|--------------------------------|----------------------|---|
| | | | | | | (1)Number of cases 234and Fine levied is Rs.23400without PUC certificate in 2019-20 by the traffic police. (2) Number of cases 88 and Fine levied is Rs.44000 without PUC certificate in April-20 to December-20 by the traffic police. |
| | Prevent parking of vehicles in the non-designated areas | Short | Traffic police, RMC | 6 months | As per RMC budget | <p>RMC has prepared parking policy in 2019-20. Existing pay and parking location for 2 w,3w,4 w with its Area as per ANNEXURE-2</p> <p>Proposed Pay and park sites Area as per ANNEXURE-2.1</p> <p>Towing cranes are being operated continuously to lift and levy penalty for parking at unauthorized places.</p> <p>(1)Towing two-Wheeler casesin2019-20 are 40,836 and fine levied is Rs.79,94400 rupees.</p> <p>(2) Towing Four-Wheeler crane cases in 2019-20are 11,399 and fine levied is Rs.56,99,500 rupees.</p> <p>(3)Towing two-Wheeler cases in April-20 to December-20 are 13350 and fine levied is Rs.55,04000 rupees.</p> <p>(4) Towing Four-Wheeler crane cases in April-20 to December-20 are 2252 and</p> |

| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|--------------|---|---|---|--------------------------------|----------------------|---|
| | | | | | | fine levied is Rs.11,43,000 rupees. |
| | Enhance parking fee by 3-4 times | Long | RMC | 3Years | ---- | As covered in Parking Policy of RMC |
| | Prepare action plan to check fuel adulteration and random monitoring of fuel quality data | Ongoing | District Adm., Oil company, Civil Supply Dept., RTO | Continuous Process | ---- | <p>Team will be formed at District level & frequency of monitoring shall be decided.</p> <p>Further, alteration of vehicles from petrol to diesel is not allowed by RTO.</p> <p>Steps to Curb Fuel Adulteration</p> <p>Public Sector Oil Marketing Companies (OMCs) namely, Indian Oil Corporation Limited (IOCL), Bharat Petroleum Corporation Limited (BPCL) and Hindustan Petroleum Corporation Limited (HPCL) take action against the erring Retail Outlet dealers as per the provisions of Marketing Discipline Guidelines and Dealership Agreement subsisting between RO dealer and OMC. Further, the Central Government has issued the Motor Spirit and High Speed Diesel (Regulation of Supply, Distribution and Prevention of</p> |

| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|--------------|--------|---|-------------------------|--------------------------------|----------------------|--|
| | | | | | | <p>Malpractices)Order, 2005 under Essential Commodities Act, 1955 which provides for punitive action against malpractices such as adulteration of petroleum products.</p> <p>Oil Marketing Companies (OMCs) have a system of monitoring and surveillance at the Retail Outlets. Important initiatives taken by OMCs in this regard are as under:</p> <ul style="list-style-type: none"> i. Filter Paper, Calibrated Density Equipment (Hydrometer / Thermometer) & 5 Liter Calibrated Measure are made available at the Retail Outlets for checking quality & quantity of MS/HSD. ii. Regular / Surprise inspections are carried out at Retail Outlets by OMC Field Officers/ Senior Officers throughout the city. In case of stock variation beyond permissible limits, density failure, filter paper test failure, suspected tampering in DU and also during special |

| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|--------------|--------|---|-------------------------|--------------------------------|----------------------|---|
| | | | | | | <p>drives/campaigns or in case of specific complaint against the retail outlets, company officials draw samples and forward them for testing as per the laid down procedure. In case of any irregularities, action is taken as per the Marketing Discipline Guidelines/Dealership agreement.</p> <p>iii. A separate Quality Assurance Cell (QAC) has been created for carrying out inspections.</p> <p>iv. Samples are drawn from petrol pumps at random and sent for testing to authorized laboratories. In case it is established that adulteration has taken place, appropriate action is taken against the erring dealers as per the provisions of the Dealership Agreement subsisting between OMCs and its Dealers.</p> <p>v. Surprise inspections are also carried out by mobile labs of OMCs where samples from Petrol pumps are drawn and tested.</p> <p>vi. Tankers are being sealed</p> |

| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|--------------|--------|---|-------------------------|--------------------------------|----------------------|---|
| | | | | | | <p>before leaving company premises to protect against pilferage/adulteration en-route. Tamper proof locking system has been introduced in tank trucks delivering petrol / diesel at Retail Outlets. 3-tier sampling system is followed to help in ascertaining exactly where adulteration could have taken place.</p> <p>vii. Third Party Audit of Retail Outlet is also being arranged by OMCs for effective monitoring and benchmarking.</p> <p>viii. Automation of Retail Outlets has been undertaken by OMCs which enable the real-time capture of sales transaction and monitoring of tank stocks and receipts.</p> <p>ix. To reinforce commitment of Quality / Quantity, OMCs carry out periodic campaigns to inform / educate the customers on the facilities available. During the campaigns, the customers are invited to carry out the checks and also give comments on their observations.</p> |

| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|--------------|--|---|-------------------------|--------------------------------|---|---|
| | | | | | | <p>x. OMCs have informed that as per provisions of Marketing Discipline Guidelines and terms and conditions of the Dealership agreement subsisting between OMC and the dealers, penal action in established cases of adulteration is termination of dealership.</p> |
| | Prepare plan for widening of road and improvement of infrastructure for decongestion of road | Long | RMC | 4-5 Years | Government Grant. Bridge Projects financial allocation is :A+B =Rs. 630.15 Crores(details of A, B are given bellow) Proposed work (A):Rs.287Crores On Going work (B):Rs. 324.10 Crores | <u>Bridge Projects:</u> In Rajkot city traffic survey is conducted by RMC and widening of existing bridges and new bridges as per their recommendation. Some of which have been completed, some are in progress and another 8 no's new such works are proposed. For improving traffic flow following actions taken/planned. (A) Proposed Bridge Projects 8 no's new as per ANNEXURE-3 (B) On Going 5 no's Bridge Projects work as per ANNEXURE-3 (C) Completed flyover Bridge 15 no's as per ANNEXURE-3 |

| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|--------------|--------|---|-------------------------|--------------------------------|---|--|
| | | | | | <p>Road Projects financial allocations :A+B=Rs. 198.95Crores (details of A and B is given bellow)</p> <p>(A)Proposed work:Rs.54.155 Cr</p> <p>(B)Completed work :Rs.144.8044255 Cr</p> | <p><u>Road Projects:</u></p> <p>Details of the proposed projects and completed project work are mentioned as per ANNEXURE-5</p> <p>(A) Proposed Road work (2020-2021) 11.5960638.14 Cr</p> <p>(B) Proposed Paving work (2020-2021) 12.1888912.00 Cr</p> <p>(C) Proposed Paver Road work(2020-2021) 30.3709000 Cr</p> <p>(A)Completed works with Asphalt re-carpeting of roads(2019-20) 26. 4610800 Cr</p> <p>(B)Completed Road works with Metal(2019-20) 8.3306405 Cr</p> <p>(C)Completed TP Road works(2019-20) 36.0882593 Cr</p> <p>(D)Completed Paver Road works(2019-20) 18.8085500 Cr</p> <p>(E)Completed Paving block Road works(2019-20) 12.5561045 Cr</p> |

| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|--------------|---|---|-------------------------|--------------------------------|----------------------|---|
| | Deploy traffic police for Smooth traffic flow at identified vulnerable areas | Short | Traffic Police,RMC | 6 months | ---- | Presently, traffic police is already provided at the major Junction points. |
| | Prepare plan for construction of expressways/ bypasses to avoid congestion due to non-destined vehicles | Short | RMC, RUDA | Complete | --- | <p>By-pass road to Rajkot is already provided.</p> <p>Ring Road-1</p> <ul style="list-style-type: none"> • Rajkot-Morbi highway to Rajkot-Jamnagar highway. • Jamnagar highway (Madhaparchowk) to Gondal Circle. <p>Ring Road-2</p> <ul style="list-style-type: none"> • Rajkot- Ahmedabad highway(Sokhada Village) to Rajkot-Morbi highway. • 9 km of the road starting from Jamnagar Road near Ghanteswar village till the multiplex cinema on Kalavad Road. • 11 km of the road starting from the multiplex cinema of Kalavad Road up to Gondal Road National Highway near the TB hospital. |

| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|--------------|---|---|---------------------------------|--------------------------------|--|--|
| | Synchronizet raffic movements/i ntroduce intelligenttraf ficsystems forlane-driving | Long | RMC, Traffic police, | 3 Years | Rs.35lakh Funding sought from MoEF& CC | <ul style="list-style-type: none"> Total 20 numbers of traffic signal in Rajkot city are with timer. There is 05 points Manual traffic signal. |
| | Installationof remote Sensorbased PUC system | Long | RTO | 3Years | No plan submitted | Total PUC stations are 140 PUC Center for Diesel vehicle:58 PUC Center for Petrol vehicle:82 All140 PUC stations are connected with NIC software. |
| | CNG stations for private Vehiclesanda uto-rickshaws | Long | Gujarat Gas Limited | 4-5 Years | Gujarat Gas Limited | Total 51 CNG stations in Rajkot district are in operation Existing 19 no's CNG Station Rajkot city as per ANNEXURE-4 Existing 32 no's CNG Station in Rajkot District details: ANNEXURE-4 |
| | CNGstations forGSRTC& RMTS bus service | Long | Gujarat Gas Limited, GSRTC, RMC | 4-5 Years | ---- | There are no buses of Rajkot GSRTC division and RMC plying on CNG.GGL to maintain statusquo. |
| | Entirefleetof busesrunby RMTS Bus Service | Short | RMC | 6 months | ----- | Rajkot has a city bus - Rajkot Municipal Transport Service (RMTS) <ul style="list-style-type: none"> Rajkot Municipal Corporation (RMC) started city bus service on 10th Oct'2013. Operated by "Special |

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| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 | | | | | | | | | | | | | | | | | | |
|--|--|---|-------------------------|--------------------------------|--|---|---------------|--|--|--------|--------|--------|---------------|--|--|------------------------------|----------|-----------|--|----------|----------------|---------------------------------|----------|----------------|
| | | | | | | Purpose Vehicle" (SPV) called Rajkot Rajpath Ltd (RRL) <ul style="list-style-type: none"> • 60+6 Marco Polo Midi Buses with 32 seating capacity. • 30+3 Tata Standard Buses with 42 seating capacity. • 57 planned routes . • Out of 57 (planned) routes, 31 routes are intersecting BRTs corridor. | | | | | | | | | | | | | | | | | | |
| | Increase bus services and increasing frequency of service. | Mid | RMC | 1 Year | ---- | Presently entire RMC area is covered through this bus Total 57 bus service route | | | | | | | | | | | | | | | | | | |
| | Augmentation of Public Transporting the city | Long | RMC | 4 to 5 years | (1)Ministry of Urban Development(MoUD) Govt.ofindia. (2) Urban Development &Urban Housing Department, Government of Gujarat(UD & UHD) (3)Gujarat Urban Development Mission(GUDM) | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">BRTS Projects</th> </tr> <tr> <th>Detail</th> <th>Length</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td colspan="3">Blue Corridor</td> </tr> <tr> <td>GondalChowk to MadhaparChowk</td> <td>10.7 kms</td> <td>Completed</td> </tr> <tr> <td>Jamnagar Road to Morbi Road(Ruda area)</td> <td>9.16 kms</td> <td>Under Planning</td> </tr> <tr> <td>Morbi Road to Gondal Road(Natio</td> <td>9.14 kms</td> <td>Under Planning</td> </tr> </tbody> </table> | BRTS Projects | | | Detail | Length | Status | Blue Corridor | | | GondalChowk to MadhaparChowk | 10.7 kms | Completed | Jamnagar Road to Morbi Road(Ruda area) | 9.16 kms | Under Planning | Morbi Road to Gondal Road(Natio | 9.14 kms | Under Planning |
| BRTS Projects | | | | | | | | | | | | | | | | | | | | | | | | |
| Detail | Length | Status | | | | | | | | | | | | | | | | | | | | | | |
| Blue Corridor | | | | | | | | | | | | | | | | | | | | | | | | |
| GondalChowk to MadhaparChowk | 10.7 kms | Completed | | | | | | | | | | | | | | | | | | | | | | |
| Jamnagar Road to Morbi Road(Ruda area) | 9.16 kms | Under Planning | | | | | | | | | | | | | | | | | | | | | | |
| Morbi Road to Gondal Road(Natio | 9.14 kms | Under Planning | | | | | | | | | | | | | | | | | | | | | | |

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| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 | | | | | | | | | | | | | | | |
|---|-----------------------|---|-------------------------|--------------------------------|---|--|--------------|--|--|----------------|--|--|---|-----------|----------------|----------------------------------|-----------|----------------|-------|-----------|--|
| | | | | | BRTS Projects financial allocation is Total Rs.161.28 Crore | <table border="1"> <tr> <td>nal Highway)</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Green Corridor</td> </tr> <tr> <td>Kothariya Road Octroi Post to Jamnagar Road</td> <td>16.50 kms</td> <td>Under Planning</td> </tr> <tr> <td>Green Land Chowk to Kalawad Road</td> <td>18.00 kms</td> <td>Under Planning</td> </tr> <tr> <td>Total</td> <td>63.50 kms</td> <td></td> </tr> </table> | nal Highway) | | | Green Corridor | | | Kothariya Road Octroi Post to Jamnagar Road | 16.50 kms | Under Planning | Green Land Chowk to Kalawad Road | 18.00 kms | Under Planning | Total | 63.50 kms | |
| nal Highway) | | | | | | | | | | | | | | | | | | | | | |
| Green Corridor | | | | | | | | | | | | | | | | | | | | | |
| Kothariya Road Octroi Post to Jamnagar Road | 16.50 kms | Under Planning | | | | | | | | | | | | | | | | | | | |
| Green Land Chowk to Kalawad Road | 18.00 kms | Under Planning | | | | | | | | | | | | | | | | | | | |
| Total | 63.50 kms | | | | | | | | | | | | | | | | | | | | |
| | Cycle Sharing Project | Short | RMC | 6 months | Cycle Sharing Project PPP mode | 19th April is world cycle day And as a part of celebration for world cycle day "Rajkot Municipal Corporation" jointly with Radio Mirchi& Rotary Mid town Library going to launch Cycle Sharing Project for the citizens of Rajkot. And As a part of Cycle Sharing Project Rajkot Municipal Corporation selected 4 core locations for Phase I in the city as a Central Bus Stop (RMC Central office), TrikonBaug, Kishan Para Choke and Indira circle. The goal for the same is to reach the city's public transport system by solving the "last mile" problem, Enhance the image of cycling to | | | | | | | | | | | | | | | |

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| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|--------------|--|---|-----------------------------|--------------------------------|----------------------|--|
| | | | | | | facilitate modal shift, reduce congestion and improve air quality by attracting private vehicle users, improve the health level of citizens of Rajkot |
| | Transportation system, parking charges may be made costlier | Short | RMC | 6 months | | Recently incorporated in RMC limit is going on. |
| | Bypassing of traffic in peak hours at major traffic intersections, near railway station and interstate bus terminals | Long | RMC,RTO, Traffic Police | 4-5 Year | | Traffic monitoring and Public alert system should be Developed to avoid traffic jam.At present 25 places are identified by RMC as high traffic spot as per ANNEXURE-6. |
| | Ban on supply of Loose 2-T oils at petrol pumps and outside | Mid | Civil Supply, Oil Companies | 1 Year | ---- | |

| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|---|---|---|-----------------------------|--------------------------------|----------------------|--|
| | Introduction of pre-fuel oil and expansion of pre-mixed outlets. | Long | Civil Supply, Oil Companies | 4-5 Years | ---- | |
| | Introduction of Bharat VI Compliant fuel | Ongoing | Oil Companies | Continuous Process | ---- | IOC, HPCL, BPCL has already provided infrastructure facilities for producing Bharat VI compliant fuel and has already started supplying since 01/04/2020. |
| | Ensuring Ethanol blended fuel as per the State Policy | Ongoing | Civil Supply, Oil Companies | Continuous Process | ---- | Blending of 10% ethanol is started. |
| Re-suspension of road dust and other fugitive emissions control | Prepare plan for creation of green buffers and paving along the traffic corridors | Ongoing | RMC | Continuous Process | ---- | Presently, regular routine maintenance work is being carried out. <ul style="list-style-type: none"> • RMC 4.5% of green cover. • In last year RMC has planted 25000 no of trees and total 156 no of garden. |

| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|--------------|--|---|-------------------------|--------------------------------|---|--|
| | Maintain potholes free roads for free-flowof traffic | Mid | RMC, Transport Dept. | 1 year | 5 no's water sprinkler required 250Lakhs (125 lakhs @ 25 lakhs capital costper water sprinkler &100lakhsfor1 year O&M from MoEF budget under NCAP) | RMETS-Gondal Chowk to Madhapar Chowk- 10.7 Kms road. <ul style="list-style-type: none"> • Service Road (Asphalt Road) width @ 5.5 meters both side along the bridge. • Cycle tracks width of 2.2 meters, both sides outside of service road. • Footpath (Paving Block) width of 1.8 meters, both sides outside cycle track. • both side along the road tress plantation. |
| | Introduce water fountains at major traffic intersection, wherever feasible | Long | RMC | 3 Year | | |
| | Greening of open areas, gardens, community places, schools and housing societies | Long | RMC | 3 Year | | |
| | Blacktopping ofmetalledroad including pavement of Road shoulders | Mid | RMC | 1 year | | |

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| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|--------------|--|---|-------------------------|--------------------------------|--|---|
| | Increase frequency of mechanized cleaning of road and sprinkling of water on roads. Identify road stretches with high dust generation. | Long | RMC | 3 Year | <p>12 no's Mechanical Powered Vacuum Street Sweeper Machine required</p> <p>1680Lakhs (1200 lakhs @100 lakhs capital costper Sweeper &480 lakhsfor1year O&M from MoEF budget under NCAP)</p> <p>10 no's Ride on Mini Sweeper Machine required</p> <p>900Lakhs (600 lakhs @60 lakhs capital costper Sweeper &300 lakhsfor1year</p> | Presently, 19Numbers of road sweeper machines are Operational in RMC limit for suppression of dust particles. |

| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|-----------------------------|---|---|-------------------------|--------------------------------|---|---|
| | | | | | O&M from MoEF budget under NCAP) | |
| Construction Activities | Enforcement of construction & Demolition Rules | Mid | RMC, GPCB | 1 Year | Tendering in process for establishment of C&D Waste Management Plant on PPP mode. | Circular issued for levying administrative charges of C & D waste. RMC published Notification for proper handling & management of construction & demolition waste as per the Construction & Demolition Waste Management Rules-2016. In this RMC has notified 2 locations for disposal of Construction & Demolition Waste. RMC is providing 24x7 on call facility for collection and transportation of C&D waste. 2 JCB and 2 dumpers are allotted for the collection and transportation of C&D waste in the city. |
| Biomass and garbage burning | Launch extensive drive against openburning of bio-mass, crop residue, garbage, leaves, etc. | Mid | RMC | 1 Year | Rs. 21.70 Crores/Year | RMC has implemented three tier garbage collection systems as part of integrated solid waste management plan including door to door waste collection, solid waste collection by container lifting and direct collection from openspot/ nuisance spot. Total 325 door to door vehicles are utilized for Door to Door waste |

| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|--------------|--------|---|-------------------------|--------------------------------|----------------------|---|
| | | | | | | collection with compartmentalized arrangement of collection of Biodegradable(Wet)and Non Bio degradable waste(Dry waste)and 111 open/nuisance spot vehicles are utilized for open spot collection. |
| | | | | | Rs. 40.00 Crores | As per capping and social up lift mentcomponent of SWM DPR, RMC had awarded work of remediation of 1.5 lakhs MT which is completed and capped in 6 acres of land. Total land reclaimed is 11 acres which is covered now in green field. Total project cost = Rs. 8.50 crores. RMC has awarded work order to M/s Abellon Clean Energy Pvt. Ltd. and Jay Vachraj earth movers and roadways for bioremediation of legacy waste at Nakrawadi for remediation of 4 lakhs MT. Since Feb-2020, total 50,000 MT legacy waste is remediated. Total project cost = Rs. 9 Crores. |
| | | | | | | Landfill Cell-1 at Nakrawadi with capacity of 50,000 MT for dumping of inert was completed in 2012 and after reaching its total capacity it was capped in 2014. The project was executed by Hanjar Biotech energies Pvt. Ltd. on PPP mode at the rate of INR 225.00/MT. |

| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|--------------|---|---|-------------------------|--------------------------------|--|---|
| | | | | | | Caping of Cell-1 at the cost of INR 3.34 Cr. Landfill Cell-2 at Nakrawadi with capacity of 4 lakhs MT was complete for dumping of inert waste in 2019 at cost of INR 17.85 Cr. by Varun Procon Pvt. Ltd. |
| | | | | | (PPP Mode) | 600TPDCapacityWastetoEnergyProject Facilityat R.S.No.222p, Nakrawadi. Under which work of Concession agreement signed and Power Purchase Agreement, land lease agreement signed and construction work is under progress. Plant will be operational byJune-2021. At now, Pre-processing of MSW is operational from November,2019 having capacity of 500MT/Day. |
| | | | | | INR 4.00 Cr. (Capital Cost) INR 0.7 Cr. (O&M Cost/year) | 2 Nos. of 5 TPD organic waste compost plant and 1 no. of 5 TPD bio methanation plant installed for the processing of organic and kitchen waste. |
| | Regular check and control of burningof municipal solid wastes | Ongoing | RMC | Continuous Process | ---- | Wards Sanitation team regularly check beat of each sweeper. |

| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|--------------|---|---|------------------------------|--------------------------------|----------------------|--|
| | Proper collection of Horticulture waste (bio-mass) and its disposal following composting-cum gardening approach | Ongoing | RMC | Continuous Process | Lakh25 | 25 garden compost capacity of 7.50 MT are operated by RMC sanitary staff. Compost produced is utilized in RMC gardens and medians. |
| Industries | Action against non-complying industrial units | Ongoing | GPCB, Industrial association | Continuous Process | ---- | Hon'ble National Green Tribunal has passed order dated: 10.07.2019 in the matter of original application No. 1038/2018, AJI GIDC, Rajkot cluster is one of the Severely Polluted Area of the Gujarat. As per Hon'ble National Green Tribunal order dated: 10.07.2019 in the matter of original application No. 1038/2018, AJI GIDC, Rajkot cluster is one of the Severely Polluted Area of the Gujarat with overall CEPI score of 70.62 (Air-51.75, Water-61.50, Land-45.75). Aji GIDC located in Rajkot City. Regular monitoring is being carried out in Aji GIDC and 5 Km radius periphery area of AJI GIDC. Suitable actions are |

| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|--------------|---|---|--|--------------------------------|----------------------|--|
| | | | | | | taken based on the severity of the non-compliances including issuance of closure order, levying bank guarantee as well as environment damage compensation etc. |
| | Restriction on using un-Authorized fuel | Ongoing | GPCB, Industries Associations , Industrial Units | Continues Process | ---- | Industrial units shall use authorized fuel as consented and shall not use any unauthorized fuel. GPCB has already notified a list of approved fuel and GPCB is carrying out monitoring of the industries. |
| | Strengthening of air pollution control measures and ensuring emission standards | Ongoing | GPCB, Industrial units, Industries Associations | Continues Process | ---- | Industrial units consuming solid fuel, already upgrade air pollution control system based on CEPI action plan by installing water scrubber, so that ambient air in an area met with the AAQ norms of PM10 and PM2.5. |
| | Adoption of cleaner fuel | Long | GPCB,GGL , Industrial units | 4-5 Years | ---- | Industrial units using solid fuel shall adopt cleaner fuel wherever it is feasible considering availability of gas and economics. <ul style="list-style-type: none"> • Presently, GGL is supplying PNG to 183 industries of Rajkot City and 378 (exclu. City) industries of Rajkot district. • Commercial Connection 827 |

| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|-----------------------|---|---|-------------------------|--------------------------------|--|--|
| | | | | | | no's in Rajkot City.Commercial Connection for Rajkot District (exclu. City) 82 no's. |
| Strengthening of AAQM | Installation & Operation of CAAQMS at Rajkot | Mid | GPCB / RMC | 1 Year | 725 Lakhs (625 Lakhs : @ 125 lakhs capital cost per CAAQMS & 100 lakhs for 1 year O&M from MoEF budget under NCAP) | As per criteria on the basis of Census 2011, it is required to establish total 5 CAAQMS. 5 are proposed under CPSU fund where as RMC has requested for funding for five CAAQMS from MoEF & CC budget under NCAP. CAAQMS shall be installed within 1 year time period |
| | Source apportionment study (SA) and Emission Inventory (EI) | Mid | GPCB, IIT/ NIT/ GEMI | 1 to 1.5 Year | 80 Lakhs From MoEF & CC budget under NCAP. | RMC has requested for funding <ul style="list-style-type: none"> RMC will prepare SA & EI study with the help of concern consultant and shall be completed it within directed time |

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| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|------------------|--|---|-------------------------|--------------------------------|---|---|
| | Mobile Enforcement Unit | Mid | RMC | 1 Year | 3 no's Mobile Enforcement Unit required 45Lakhs (@ 15 lakhscapital costper unit including vehicles & staff from MoEF budget under NCAP) | |
| | Water Foggers | Mid | RMC | 1 Year | 6 no's Water Foggers are required300Lakhs (240 Lakhs @ 40 lakhscapital costper Water Foggers & each 60 lakhsfor1year O&M from MoEF budget under NCAP) | |
| Public Awareness | Prompting of use of LPG as Domestic fuel instead | Long | GGL,RMC | 3 Year | | GGL is conducting awareness through publishing hoardings, Distribution of pamphlets at their dispensing stations. |

| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|--------------|--|---|-------------------------------|--------------------------------|--|--|
| | of burning coal, wood and cowdung cakes. | | | | | |
| | Launch public awareness campaign for pollution control, vehicle maintenance, minimizing use of personal vehicles, lane disciplines, etc. | Mid | CoT, Traffic police, GPCB,RMC | 1 Year | 45 Lakhs Funding sought from MoEF&CC under NCAP. | Online portal is already available for complaint mechanism 24x7 Complaint register mechanism is already available and also SLA - Service level agreement is there to resolve the complaint in time limit. |
| Others | Air Quality Index to be calculated and disseminated to be people through web site and other media (on maximum | Long | RMC, GPCB | 4-5 Year | | Presently there are 03AAQMS operating under NAMP and SAMP. Monthly average and yearly average data are being compiled and reviewed. Results for PM10 show higher than norm and PM2.5 show near to the limit. RMC has also provided continuous environment sensors at various 19 no's locations as per ANNEXURE-7 For the continuous monitoring of various six air quality parameters viz. NO2, CO, SO2, |

| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|--------------|---|---|-------------------------|--------------------------------|--------------------------|---|
| | weeklybasis for manually operated monitoring stations and real time basis for continuous monitoring stations) | | | | | O3,PM2.5, PM10.The values are made available through online mobile application. |
| | Engage with concerned Authorities on continual basis for maximizing coverage of LPG/PNG for | Ongoing | RMC,GGL, Civil Supply | Continues Process | ----- | DSO:100%target has been achieved through 98, 908LPGConnection issued under “Pradhan Mantri Ujjwala Yojana”. |
| | domestic and commercial cookingwitht argetof100 % coverage | Long | GGL | 4-5 Year | Cost for Industries also | Gujarat Gas Limited Details up to December 2020 <ul style="list-style-type: none"> • Domestic Connection in Rajkot city 2, 14,107no’s. • Industrial Connection in Rajkot city 183 no’s. • Connections provided by GGL |

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| Source Group | Action | Implementation period(Short /Mid / Long-term) | Responsible agency(ies) | Time Target for Implementation | Financial Allocation | Any other information Status as on Dec-2020 |
|--------------|--------|---|-------------------------|--------------------------------|----------------------|--|
| | | | | | | through network of MDPE and steel pipeline 2422.8 Kms. |

Annual Average of Ambient Air Quality under NAMP

| Location | Year | Average values in $\mu\text{g}/\text{Nm}^3$ | | | |
|---|-------------------|---|-------------------|-----------------|-----------------|
| | | PM ₁₀ | PM _{2.5} | SO ₂ | NO _x |
| Amul Ind. Ltd. Nr. Sardhara Industrial Corporation, Rajkot | 2014-15 | 89 | 32 | 13.3 | 20.3 |
| | 2015-16 | 93 | 32 | 12.9 | 23.1 |
| | 2016-17 | 100 | 34 | 13.8 | 19.5 |
| | 2017-18 | 150 | 54 | 17.6 | 23.2 |
| | 2018-19 | 182 | 57 | 19.9 | 24.4 |
| | 2019-20 | 118 | 32 | 20 | 24.3 |
| | 2020(till Nov-20) | 107 | 27.42 | 12.94 | 16.7 |
| Location | Year | Average values in $\mu\text{g}/\text{Nm}^3$ | | | |
| | | PM ₁₀ | PM _{2.5} | SO ₂ | NO _x |
| GPCB Office, R.O. Rajkot | 2014-15 | 82 | 31 | 12.3 | 19 |
| | 2015-16 | 90 | 28 | 14.5 | 20.8 |
| | 2016-17 | 90 | 32 | 14.6 | 22.1 |
| | 2017-18 | 131 | 50 | 15.5 | 20.2 |
| | 2018-19 | 182 | 56 | 19.9 | 24.4 |
| | 2019-20 | 103 | 27 | 18.6 | 22.4 |
| | 2020(till Nov-20) | 82.71 | 23.14 | 10.98 | 97.4 |

Annual Average of Ambient Air Quality under SAMP

| Location | Year | Average values in $\mu\text{g}/\text{Nm}^3$ | | | |
|---|-------------------|---|-------|-----------------|-----------------|
| | | PM10 | PM2.5 | SO ₂ | NO _x |
| Fire Brigade Station, Kalawad Road, Rajkot | 2014-15 | 85 | 31 | 13.2 | 19.8 |
| | 2015-16 | 94 | 29 | 13.0 | 21.36 |
| | 2016-17 | 95 | 33 | 14.8 | 21.56 |
| | 2017-18 | 163 | 54 | 17.4 | 21.76 |
| | 2018-19 | 198 | 61 | 19.2 | 23.7 |
| | 2019-20 | 115 | 29 | 19.7 | 23.2 |
| | 2020(till Nov-20) | 93.42 | 24.85 | 11.65 | 14.78 |

RMC has prepared parking policy in 2019-20. Existing pay and parking location for 2 w,3w, 4 wwithits Area.

| Sr.No. | Location/Parking Site | Parking Area sq.mt |
|--------|--|--------------------|
| 1 | Sarveshwar Chowk | 1225 |
| 2 | TrikonBaug | 225 |
| 3 | Akhabhagat Chock | 424 |
| 4 | K.K.V Circle to Indira Circle Flyover East Side Part-2 | 1300 |
| 5 | K.K.V Circle to Indira Circle Flyover West Side Part-5 | 1300 |
| 6 | K.K.V Circle to Big Bazar Flyover West Side Part-6 | 1100 |
| 7 | BRTS Root MadhaparChowkdi | 323 |
| 8 | Dhanrajani Building (Imperial Hotel) to JillaPanchayatChowk | 1000 |
| 9 | Madhav Parking, KothariyaChowkdi | 8195 |
| 10 | BRTS Root GondalChowkdi | 702 |
| 11 | HomiDastoorMarg Both side | 2900 |
| 12 | Open Plot Dhebar Road Part-3 | 1200 |
| 13 | Open Plot B/h Hudko Quarter | 1650 |
| 14 | Under Bridge Gondal Road Near D-mart | 6375 |
| 15 | Atmiya College to Crystall Mall | 1727 |
| 16 | Dhebar Road Corner Plot, Opp. Nagrik Bank Part-1 | 1200 |
| 17 | K.K.V Circle to Big Bazar Flyover East Side Part-1 | 875 |
| 18 | Indira Circle to Raiya Telephone Exchange Flyover East Side Part-3 | 1950 |
| 19 | Indira Circle to Raiya Telephone Exchange Flyover West Side Part-4 | 1950 |
| 20 | MochiBazzar Court to Petrol Pump till Road boundary | 310 |
| 21 | Alferd High School to Bhabha Hotel | 190 |
| 22 | Tanishka Tower to MalaviyaChowk | 180 |
| 23 | R.K.C Wall, Radhakrishna Road | 165 |
| 24 | Jubilee Vegetable Market | 550 |
| 25 | Open Plot Dhebar Road Part-2 | 525 |
| 26 | Open Plot Dhebar Road Part-4 | 425 |

379

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| 27 | Open Plot, GovardhanChowk , Near 150 Feet Ring Road | 1250 |
| 28 | MavdiChokdi to Gondal Road chokdi Flyover East Side Part-1 | 765 |
| 29 | MavdiChokdi to Nanamava Road chokdi Flyover East Side Part-2 | 765 |
| 30 | MavdiChokdi to Nanamava Road chokdi Flyover West Side Part-3 | 765 |
| 31 | MavdiChokdi to Gondal Road chokdi Flyover West Side Part-4 | 765 |
| 32 | RaiyaChokdi to Indira Circle Flyover East Side Part-1 | 765 |
| 33 | RaiyaChokdi to Nanavati Chowk Flyover East Side Part-2 | 765 |
| 34 | RaiyaChokdi to Nanavati Chowk Flyover West Side Part-3 | 765 |
| 35 | RaiyaChokdi to Indira Circle Flyover West Side Part-4 | 765 |
| 36 | Pardi Road Open Plot, Near Community Hall | 1615 |
| 37 | Open Plot Near Sterling Hospital | 400 |
| 38 | Open Plot Near Satyasai Hospital Road | 3300 |
| 39 | Open Plot, Near Purusarth Society | 6500 |
| 40 | Greenland Chokdi Bridge Side Plot Both Side | 2325 |
| 41 | Jagnath Mandir Open Plot, Near Dr.Yagnik Road | 588 |

List of proposed pay & park sites

| Sr.No. | Location/Parking Site | Parking Area sq.mt |
|--------|---|--------------------|
| 1 | Open Plot ,Opposite Atal Bihari Auditorium | 1000 |
| 2 | Open Plot, Near Pramukh Swamy Auditorium | 3072 |
| 3 | Open plot Naherunagar 80 feet road, Yogeshwar society | 1030 |
| 4 | Open Plot, Panchayat Nagar Chowk | 589 |
| 5 | Lakhajiraj School, Lakhajiraj road. | 1228 |
| 6 | KantastreevikasGruh to Corporation Chock Both side | 2555 |
| 7 | PDM College to Old Jakatnaka area Both Side | 2500 |

In Rajkot city traffic survey is conducted by RMC and widening of existing bridges and new bridges as per their recommendation. Some of which have been completed, some are in progress and another new such works are proposed. For improving traffic flow following actions taken/planned.

(A) Proposed Bridge Projects

| Sr. No. | Name of works | Estimated(Rs.in.Cr) |
|---------|---|---------------------|
| 1 | 150 feet ring road – Umiya Chowk | 50 |
| 2 | Greenland chokdi Fly Over Bridge | 50 |
| 3 | Sorathiyawadi Over Bridge | 32 |
| 4 | Kotharia Solvent Road | 35 |
| 5 | Jamnagar Road Sandhiya Bridge | 35 |
| 6 | LC-4 Airport Road | 85 |
| 7 | Road connecting LC-11 Dhebar Road and Gondal Road (P.D. Malviya Gate) | |
| 8 | Road connecting LC-12 Dhebar Road and Gondal Road (Attica Gate) | |

(B) On Going work:

| Sr. No. | Name of works | Estimated(Rs.in.Cr) |
|---------|---|---------------------|
| 1. | Hospital Chowk Flyover Bridge | 84.71 |
| 2. | 150 feet ring road – Ramapir Chowk | 41.13 |
| 3 | 150 feet ring road –Nanamwa Chowk | 40.21 |
| 4 | Flyover bridge near Kalavad Road-Jadus Restaurant | 28.52 |
| 5 | 150 feet ring road - KKV over bridge (second level) | 129.53 |

(c) Completed flyover Bridge Work:

| Sr. No. | Name of works |
|---------|--|
| 1 | Kaishari Hind Bridge, Kuwadwa Road |
| 2 | Champakbhai Vora Bridge |
| 3 | Indira Bridge, RamnathparaPanjrapol |
| 4 | Bhagwatipara Flyover Bridge |
| 5 | Morbi Road Flyover Bridge, Near GSDMA |
| 6 | Gondal Road / Mavdi Flyover Bridge (Railway Crossing Bridge) |
| 7 | Jamnagar Road Flyover Bridge (Railway Crossing Bridge) |
| 8 | Rail nagar Under Bridge |
| 9 | Women's College Under Bridge |
| 10 | KKV Chowk fly over bridge |
| 11 | Raiya Chowk Flyover Bridge |
| 12 | Mavdi Chowk Flyover Bridge |
| 13 | Dudhsagar Bridge new, Dudhsagar Road |
| 14 | Railway underpass near Amrapali |
| 15 | Laxminagar Railway Underpass |

Total 51 CNG stations in Rajkot district are in operation. Existing 19 no's CNG Station Rajkot city as per.

| Sr. No. | Location | Type |
|---------|---|------------------|
| 1 | Prem Petroleum, Survey No: 53/2/P1/P3/P1,A2-G18, Near AtithiDevoBhava Hotel, Ronki, Rajkot, Tal. Rajkot, Rajkot - 360006 Dist: Rajkot | Online |
| 2 | Sahaj Petroleum, Survey No. 68, Paiki 1, Rajkot Morbi Rd, Near Marwadi College, Gauridad Rajkot - 360003 Dist: Rajkot | Online |
| 3 | J. B. & Associates, At & Post Ronki, 150 Ring Road, Madhapar Crossing Rajkot - 360003 Dist: Rajkot | Online |
| 4 | Koteshwar Auto Centre Near Aji Dam, Rajkot Bhavnagar Road, Rajkot City Rajkot City - 360003 Dist: Rajkot | Daughter Booster |
| 5 | Jaynath Traders, Nr. Thorala, Near Chunarawad Chowk, Rajkot Bhavnagar Road, Rajkot City Rajkot - 360003 Dist: Rajkot | Online |
| 6 | National Petrochem, Kuvadva Road, Rajkot - 360003 Dist: Rajkot | Online |
| 7 | Mavdi Fuels, Mavdi – Paal Road, Near VagadChowkdi, Mavdi, Rajkot City, Rajkot - 360004 Dist: Rajkot | Online |
| 8 | HPCL RMC4 COCO, Raiya Road, Bapa Sitaram chowk, Rajkot City, Rajkot - 360005 Dist: Rajkot | Online |
| 9 | RCT Police Welfare, Jamnagar Road, Near Police Head Quarter Rajkot - 360006 Dist: Rajkot | Online |
| 10 | Mehta Brothers Petrol Pump, Dehbar Road, Near GSRTC Bus Depot Rajkot - 360360 Dist: Rajkot | Online |
| 11 | Gujarat Gas (Ghanteshwar), Ghanteshwar, Rajkot Jamnagar Road Rajkot - 360006 Dist: Rajkot | Mother/Online |
| 12 | National Automobiles, Dhebar Road, Near GSRTC Bus Depot Rajkot - 360002 Dist: Rajkot | Online |
| 13 | Natraj Petroleum, Near Sorthaliya Circle, Kotharia Road Rajkot - 360002 Dist: Rajkot | Online |
| 14 | Bombay Garage, Gondal Road Rajkot - 360002 Dist: Rajkot. | Online |
| 15 | Giriraj Petroleum, Opp. Atmiya College, Kalawad Road Rajkot - 360005 Dist: Rajkot | Online |
| 16 | Jay Somanath Petroleum, Near Madhapar Crossing, Jamnagar Bypass Rajkot - 360006 Dist: Rajkot | Online |
| 17 | HPCL COCO, Nana Mauva Circle, 150 feet Ring Road Rajkot - 360001 Dist: Rajkot | Online |
| 18 | Om Petroleum, Near Ramapeer Crossing, 150 feet Ring Road Rajkot - 360005 Dist: Rajkot | Online |
| 19 | Gujarat Gas (Rajkot City), NH27, Near Greenland Crossing, Rajkot - 360003 Dist: Rajkot | Mother/Online |

Existing 32 no's CNGStation in Rajkot District details:

| Sr. No. | Location | Type |
|---------|--|------------------|
| 1 | Shree Ram Auto, Plot No: 8, Survey No: 8P1, JetpurBagasara Road, Parab Dham, Kharchiya Rajkot - 360060 Dist: Rajkot | Daughter Booster |
| 2 | Raj Automobiles, Survey No. 161/B, Nh27, Village Pardi Nr. Shapar Veraval Ind. Area Rajkot - 360024 Dist: Rajkot | Daughter Booster |
| 3 | Sahara Filling Station, Plot No: 2, Survey No: 214/1, Moviya Road, Cement Industries, Gondal Rajkot - 360311 Dist: Rajkot | Daughter Booster |
| 4 | Shree Danev Petroleum, Plot No: 939, Survey No: 379P2, Sanathali-Vasavad Road At.Sanathali, Atkot, Sanathali, Rajkot - 364490 Dist: Rajkot | Daughter Booster |
| 5 | Maruti Petroleum, NH27, Shapar, Gondal Road, KotdaSangani - 360024 Dist: Rajkot | Online |
| 6 | Gujarat Gas (Paddhari), Vanpari, Near Paddhari Toll Plaza Paddhari - 360110 Dist: Rajkot | Mother/Online |
| 7 | Gohilraj Petroleum, Metoda, KalawadRoad, Lodhika - 360021 Dist: Rajkot | Online |
| 8 | Avadh Infrastructure Pvt. Ltd., NH27, Sapar (Veraval), KotdaSangani - 360024 Dist: Rajkot | Mother /Online |
| 9 | Shree Ambika Petroleum, Vajdi, Metoda GIDC, Lodhika - 360005 Dist: Rajkot | Online |
| 10 | Indian Highway Point, Vajdi (Virda), Kalawad Road, Rajkot - 360005 Dist: Rajkot | Online |
| 11 | Shrinathji Petroleum, Vinchhiya Road, Jasdan, Jasdan - 360050 Dist: Rajkot | Daughter Booster |
| 12 | Bhagirath Petroleum, NH27, Kuvadva, Rajkot - 360023 Dist: Rajkot | Daughter Booster |
| 13 | Ghanshyam Petroeum, Atkot, Rajkot Bhavnagar Road, Jasdan - 360040 Dist: Rajkot | Daughter |
| 14 | Santram Petroleum, Gondal, GondalJamkandorna Road, Gondal - 360311 Dist: Rajkot | Daughter |
| 15 | Radhe Petroleum, Lodhika, Lodhika - 360035 Dist: Rajkot | Daughter |
| 16 | Dhyey Petroleum, Dhoraji, Dhoraji Junagadh Highway, Dhoraji - 360410 Dist: Rajkot | Daughter Booster |
| 17 | Viabhav Petroleum, NH927D, Jashapar, Jamkandorana, Jamkhandorna - 360380 Dist: Rajkot | Online |
| 18 | Sojitra Petroleum, Bypass Circle, Atkot Road, Aanand Nagar, Jasdan, Jasdan - 360050 Dist: Rajkot | Daughter Booster |
| 19 | Suryoday Petroleum, Opp. Ganesh Oil Mill, Dhoraji – Upleta Old NH, Upleta Bypass, Upleta - 360440 Dist: Rajkot | Daughter Booster |
| 20 | Kishan Trade Co, NH27, Village Virpur – Kagvad, Jetpur - 360370 Dist: Rajkot | Online |
| 21 | Aum Petroleum, NH27, Rajkot Porbander Highway, Ganod Village, Upleta - 360490 Dist: Rajkot | Daughter Booster |
| 22 | Jalsagar Petroleum, NH151, JetpurJunagadh Highway, Jetalsar, Jetpur– 360360, Dist: Rajkot | Daughter Booster |
| 23 | B. P. COCO, NH27, BiliyadaGondal - 360311 Dist: Rajkot | Daughter Booster |
| 24 | Sahyog CNG Pump Pvt. Ltd. | Online |

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|----|---|------------------|
| | Ratanpur, Rajkot Morbi Road, Rajkot - 360003 Dist: Rajkot | |
| 25 | SardharJuthVikasKaryakariSahkari Mandl, Sardhar Rajkot - 360025 Dist: Rajkot | Daughter |
| 26 | ShivamJemin Petroleum, Kalipat Village, SH-25, Rajkot Bhavnagar Road, Rajkot - 360020 Dist: Rajkot | Daughter Booster |
| 27 | New Ekta Petroleum, HingolghadhVinchhiya Road, HingolghadhJasdan - 360050 Dist: Rajkot | Daughter Booster |
| 28 | Maruti Petroleum, Jetpur - Junagadh Road, SH-3, Village Jetalsar, Jetpur - 360360 Dist: Rajkot | Daughter Booster |
| 29 | Suryadeep Petroleum, Plot No: 1, Survey No: 110P2, Vinchhiya, Botad Road, Rajkot - 360055 Dist: Rajkot | Daughter Booster |
| 30 | Vraj Petroleum, Survey No: 9/1/P1/P2 GondalKunkavav Road, At Moviya, Rajkot - 360330 Dist: Rajkot | Daughter Booster |
| 31 | Galaxy Petroleum, Plot No: 3, Survey No: 58 / 3 Paikee, Bhojpara, Everest Honda Showroom, Bhojpara, Rajkot - 360311 Dist: Rajkot | Daughter Booster |
| 32 | Shreeji Petroleum, Plot No: 1, Survey No: 248 / 1 Paikee, Vasavad, Opp. Pgvcl Office Vasavad, Vasavad, Rajkot - 364490 Dist: Rajkot | Daughter Booster |

Road Projects:**(A) Proposed Road work (2020-2021)**

| Sr.No. | Name of work | Cost owork(Rs) |
|--------|--|------------------|
| 1 | Mattling work on TP Road no.15, Ward No. 1, Raiyadhar Road to Hanumanji Temple. | 2256000 |
| 2 | In the remaining part of Sai Baba Park CC Road in Ward No.-10, Mattling and CC. | 863458 |
| 3 | Matting work under 'Janbhagidari Yojana' in Pranami Park-(A) in Ward No.-11. | 567000 |
| 4 | Drainage matting work in Aji GIDC in ward no.15 | 1477000 |
| 5 | Drainage charada matting work in Mira Udyog, Maruti Industries, Ganjiwada in ward no.15 | 3010000 |
| 6 | Mattling work on both sides of the road on Dhebar Road in Ward No. 18. | 4402180.13 |
| 7 | Matting of Sorathia Park, Sumangal Park, Mangal Park, Hapaliya Park, New Radheshyam, Old Radheshyam, Shyamsunder, Ramnagar and Shivdhara etc. in Ward No. 14 Kotharia | 15360000 |
| 8 | Matting work in Santosh Park, Shivdham Society-2, Patel Park, Kailash Park, Somnath Park and Shyam Park etc. in Kotharia in ward no.18 | 16105000 |
| 9 | Mattling work in the society on the north side of 24.00 m TP road connecting Sai Bab Circle to Kotharia Main Road in Ward No. 18. | 12600000 |
| 10 | Mattling work in Gulabnagar area in ward no. 12 Kotharia | 5549000 |
| 11 | Matting work in areas like Shri Ganesh, New Ganesh Society, Old Ganeshnagar, Ranujadham, Sanatan Park etc. in Ward No. 12 Kotharia | 13300000 |
| 12 | Matting work in the society located on the south side of 8.00 m TP road connecting Sai Bab Circle to Kotharia Main Road in Ward No. 18. | 23000000 |
| 13 | Ward no.18, Kotharia Swati Highrise, Public Road under public participation in Survey no.160/162. | 11160000 |
| 14 | In Panchnath Society on Kotharia Road in Ward No. 18, under public participation, the work of matting and CC in the roads has been done (from the grant of Corporator Shri Nirmalbhai Maru and Mrs. Menaben Jadav) | 5115000 |
| 15 | Shraddhadeep Sosa in ward no.18, Metalling work in the streets. | 1196000 |
| Total | | 11.5960638.14 Cr |

(B) Proposed Paving work (2020-2021)

| Sr. No. | Name of work | Cost of work (Rs) |
|---------|---|-------------------|
| 1 | Installation of paving blocks under 'Janbhagidari Yojana' on both sides of the road in Satyanarayana Park in Ward No.-1. | 876000 |
| 2 | Raiadhar Slum Quarters in Ward No.-1 Dr. Laying of paving blocks in the remaining part of the streets in front of Zakir Hussain School. | 702778 |
| 3 | Installation of paving block in Rishi Vatika in ward no. 1. | 1291000 |
| 4 | Installation of paving blocks under 'Janbhagidari Yojana' on both sides of the road in In Aksharnagar Street No. 2, 3, 4 (Part) in Ward No.-1. | 2318493 |
| 5 | Repair of footpath from Ramapir Chowk to Shastrinnagar on Raiadhar Road in Ward No.-1, laying of duct line and laying of paving blocks on both sides of the road. | 5786000 |
| 6 | Work of laying inter locking paving block in the side solder of the road in Grandhigram Street No. 2 (East-West) and Street No. 10 in Ward No. | 391184 |
| 7 | Work of lying inter locking paving block in the side solder of the road in Grandhigram Street No.-11/1 in Ward No.-1.) | 458263 |
| 8 | Installation of paving block under 'Janbhagidari Yojana' in Labhdeep Society in Ward No.-1. (10% from the grant of Hon'ble MLA) | 1958517 |
| 9 | Installation of paving block under 'Janbhagidari Yojana' in Gautmanagar in Ward No.-1. (10% from the grant of Hon'ble MLA) | 3369398 |
| 10 | Installation of paving block under 'Janbhagidari Yojana' in Satyanarayana Nagar and Kashtabhanjan Society in Ward No.-1. (10% from the grant of Hon'ble MLA) | 4005437 |
| 11 | Installation of paving block in ward no. 1 in Mochinagar-2 street no. | 3468000 |
| 12 | Installation of paving block in Ward No. 1, Aksharnagar Street No. 1, 2 (Part), 2 and Hariom Society under "Janbhagidari Yojana". | 2285000 |
| 13 | Installation of paving block under "Janbhagidari Yojana" in the open plot of Alap Green City in Ward No.-1. (10% Hon. MLA Shri VijaybhaiRupani Grant) | 1473000 |
| 14 | Laying of paving blocks in side solder (Kalawad Road to Nanamwa Road) on both sides of the road on Satya Sai Marg in Ward No.-8. | 3214772 |
| 15 | Laying of paving block on the side of road from Raiya Road Hanuman Madhi to Amrapali Phatak in Ward No.-8 | 1465526 |
| 16 | Installation of paving block in Purnima Society, Shastrinnagar Society Main Road, Jay Shakit Society, | 2192973 |

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| | Silver Sanded Society and Main Road Side Solder with Ramani Garage under "Janbhagidari Yojana" in ward no.8 | |
| 17 | Installation of Inter Locking Paving Block under 'Janbhagidari Yojana' in road side solder in Miranagar Street No. 1 to 8 in Ward No. 9 (Hon. Dharasabhyashri Shri VijaybhaiRupani's year 2016-2017 10 | 1997728 |
| 18 | Installation of Inter Locking Paving Block in the side solder of Service Road near Raiya Chowk in Ward No.-9. | 5748955 |
| 19 | Installation of Inter Locking Paving Block under 'Janbhagidari Yojana' in the side solder of the road from Patel Kanya Hostel to Gopal Chowk in Ward No.-9. (10% grant of Hon'ble MLA Shri VijaybhaiRupani for the year 2017-2018) | 2849951 |
| 20 | Installation of Inter Locking Paving Block under 'Janbhagidari Yojana' in Kailash Park Street No. 1 to 12 and Main Road Road Solder in Ward No. 2. (10% grant of Hon'ble MLA Shri VijaybhaiRupani for the year 2017-2018) | 4995064 |
| 21 | Work of paving block in road side in various societies in ward no. (Natrajnagar) (From the grant of Hon'ble Member of Parliament Shri MohanbhaiKundaria) | 913536 |
| 22 | Installation of Inter Locking Paving Block under 'Janbhagidari Yojana' in Gandhinagar Street No. 1 to 2 and side road solder of Main Road in Ward No. 9. (10% grant of Hon'ble MLA Shri VijaybhaiRupani for the year 2017-2018) | 3698145 |
| 23 | Work of laying inter locking paving block in the side solder of the road in the internal streets of Natrajnagar in ward no.9 | 444637 |
| 24 | Work of laying inter locking paving block in the side solder of the road of Cellus Tax Society and Telephone Society in Ward No.-9. (Grant of Hon'ble Shri VijaybhaiRupani) | 452815 |
| 25 | Installation of Inter Locking Paving Block in Sadhu Vaswani Road Nilkamal Park in Ward No.-9. (Grant of Hon'ble Shri VijaybhaiRupani) | 500000 |
| 26 | Laying of Inter Locking Paving Block in the side solder of the road on Natrajnagar Main Road in Ward No.-9. | 500000 |
| 27 | Inter locking paving block under "Janbhagidari Yojana" in road side solder in Raviratna Park in ward no. (10% amount) | 320000 |
| 28 | Laying of road side paving block in Africa Colony in Ward No.-10. | 958331 |
| 29 | Work of laying inter locking paving block in the side solder of the road in Amrita Society Street No. 1 and 2 in Ward No. 10.) | 444630 |
| 30 | In Ward No.-10, Ghanshyamnagar, Jayotinagar, Krishna Park, Shivdham Society, Sadgurunagar, Shiv-Shakit Colony and the adjoining area, the work of laying paving block in the side solder of the road | 3558231 |

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| | under "Janbhagidari Yojana". (10% from the grant of Hon'ble MLA) | |
| 31 | In Ward No. 10, Yogi Park, Nidhi Karmachari Society, Swavati Society, Alay Park, RK Park. (10% from the grant of Hon'ble MLA) | 3524310 |
| 32 | Installation of paving block in Jalararam Plot, Balamukund Plot, Paras Society, Navinnagar, Royal Park and adjoining area under roadside solder in ward no.10 (10% from the grant of Hon'ble MLA) | 3593157 |
| 33 | Installation of paving block with utility duct in side solder on both sides of road from Vrindavan Society Main Road, Kalawad Road to Mokaji Circle in Ward No.-10 | 10600000 |
| 34 | Girnar Sosa on 80 feet road with Khodiyar Hotel in ward no-11. From Yadunandan Chowk to the left side of the interlocking paving block. | 246855 |
| 35 | Girnar Sosa on 80 feet road with Khodiyar Hotel in ward no-11. Inter locking paving block on the right side of Yadunandan Chowk. | 256238 |
| 36 | Installation of paving block in Girnar Labor Colony in Ward No. 11 and Dharamnagar Street No. 2 under "Janbhagidari Yojana". (10% Corporator Shri Grant) | 633125 |
| 37 | Installation of paving block in road side solder under "Janbhagidari Yojana" in Shastrinnagar Society in Ward No.-11. (10% Corporator Shri Grant) | 1595143 |
| 38 | Work of laying inter locking paving block in Patelnagar society in ward no-11 under "Janbhagidari Yojana". | 1654000 |
| 39 | In Ward No.-11, Omnagar-3, Rajdip Society-3, Rajeshwari Mandir etc., the work of installing paving block under 'Janbhagidari Yojana' from the grant of corporator Smt. VasantbenMalvi for the year 2017-20. | 1774000 |
| 40 | Installation of paving block under Omnagar Society Main Road "Janbhagidari Yojana" in Ward No.-11. | 1428000 |
| 41 | Installation of paving block in the common plot of Shakitnagar Society in Ward No.-12. | 324694 |
| 42 | Installation of paving block in the public plot of Ankurnagar street no. 2 in ward no. 12(Under the grant of the Chairman of the Standing Committee) | 552526 |
| 43 | Installation of paving block under "Janbhagidari Yojana" in side solder of Balaji Park Main Road in Ward No.-12. | 785000 |
| 44 | Laying of paving block in ward no. 12 from Vishweshwar Housing Society to Vinayak street no. | 1990000 |
| 45 | Laying of paving block in road side solder under "Janbhagidari Yojana" in Vinayak Street No. 1 in Ward No.-12. | 433000 |
| 46 | Installation of paving block under "Janbhagidari Yojana" in side solder of Main Road of Jalaram Society-1 in Ward No.-12. | 519000 |

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|-------|--|------------------|
| 47 | Installation of paving block under "Janbhagidari Yojana" in Vrindavan Society, Srinathji Park-2 in Ward No.-12. | 1332000 |
| 48 | Installation of paving block under "Janbhagidari Yojana" in Amidhan Park Society in Ward No.-12. | 422000 |
| 49 | Ward no. 5 Paving block and Shri Ram Sosa in the remaining part of 9th Hudco quarter. Laying of paving blocks on the sidewalk on Main Road | 2650000 |
| 50 | Ward no. 5Corpo. Shri ArvindbhaiRayani's grant from the year 2060-21 through public participation in school no. Laying of paving blocks on both sides on 4th Patel Chowk, AadoPadak Road (Tinku Print) | 4337500 |
| 51 | According to the beautification of 3 main roads of Rajkot city, flooring work of rubber mold paving block in sidewalk and side solder on ward no. 18 Kotharia main road. | 20600000 |
| Total | | 12.1888912.00 Cr |

(C) Proposed Paver Road work(2020-2021)

| Sr. No. | Name of work | Cost of work (Rs) |
|---------|---|-------------------|
| 1 | Paver re-carpeting work in Jivantikanagar in Ward No.-1. (SDBC) | 2047000 |
| 2 | Paver re-carpeting of roads in Shastrinnagar (Part) in Ward No.-1. (SDBC) | 5510000 |
| 3 | Paving re-carpeting of roads in Himmatnagar in Ward No.-1. (SDBC) | 2400100 |
| 4 | Paver re-carpeting of roads in Govindnagar in Ward No.-1. (SDBC) | 1815000 |
| 5 | Paver re-carpeting of Santosh Park Main Road in Ward No.-1. | 1545000 |
| 6 | Paving work in ward no.1 | 365000 |
| 7 | Paver carpeting work from Shantinagar to Sopan Heights Chowk in Ward No.-1. | 378000 |
| 8 | Work of paving re-carpeting of roads in Milan Park, Puja Park and Akshamagar- (1) in Ward No.-1. (SDBC) | 802500 |
| 9 | Work of paver re-carpeting of road in Royal Owandyu and Amrut Park Street No. 1 in Ward No.-1. | 502500 |
| 10 | Paver re-carpeting of roads in Ramdham Society in Ward No.-2. (SDBC) | 2067100 |

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|----|---|---------|
| 11 | Paver re-carpeting of roads in Ananta Society in ward no. | 1019500 |
| 12 | Re-carpeting of roads in Janaki Park and Srinathji Society in Ward No.-2. | 2162800 |
| 13 | Paver re-carpeting of roads in Suryoday Society in Ward No.-2. | 3631100 |
| 14 | Paving re-carpeting of road in Shantivan Park- (1) and (2) in Ward No.-2. | 447800 |
| 15 | Yogidarshan in ward no-2- work of paving re-carpeting of road in (1) and (ii). | 399400 |
| 16 | Work of paving re-carpeting of road in ward no. | 447300 |
| 17 | Paving re-carpeting of roads in Jagannath Plot in Ward No.-2. | 1388600 |
| 18 | Paver re-carpeting of roads in Ward No.-Uma Gangdev Park and Awakar Avenue. | 651800 |
| 19 | Paver re-carpeting of roads in Dwarikadham Society in Ward No.-2. | 392300 |
| 20 | Work of paving re-carpeting of roads in ward no. | 536200 |
| 21 | Nandkishore- (1), (2) in ward no. | 1087700 |
| 22 | Paving re-carpeting of roads in Kingsland Park in Ward No.-2. | 856900 |
| 23 | Paver re-carpeting of roads in Natrajnagar in ward no. | 1377000 |
| 24 | Paving re-carpeting of roads of Bombay Housing Society in Ward No.-2. | 1955000 |
| 25 | Paver re-carpeting of Kailash Park roads in ward no. | 2715000 |
| 26 | Paver re-carpeting of roads of Bhidbhanjan Society in Ward No.-2. | 1469000 |
| 27 | Paver re-carpeting of Harinagar roads in ward no. | 1986000 |
| 28 | Paver re-carpeting of roads of Shreeji Park and Saraswati Park in Ward No.-2. | 1500000 |
| 29 | Paver re-carpeting of Yoginagar roads in ward no. | 464000 |
| 30 | Paver re-carpeting of roads in Mangalam Park, Shankutal Society in Ward No.-2. | 1986000 |
| 31 | Paver re-carpeting of roads in Rishikesh Society in Ward No.-2. | 2021000 |
| 32 | Paver re-carpeting of roads in Madhuvan Park, Sarita Park, Radhuvir Park in Ward No.-2. | 2000000 |
| 33 | Paver carpeting of Kerala Park roads in ward no. | 982000 |
| 34 | Paver re-carpeting of roads of Amrita Society in Ward No.-10. | 1339000 |
| 35 | Paver re-carpeting of roads of Africa Colony in Ward No.-10. | 1590000 |

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| 36 | Paver re-carpeting of Shakitnagar roads in ward no-10. | 876000 |
| 37 | Paver re-carpeting of Milapnagar roads in Ward No.-10. | 985000 |
| 38 | Paver re-carpeting of Shraddhadip Society roads in Ward No.-10. | 1105000 |
| 39 | Paver re-carpeting of Amrutnagar roads in Ward No.-10. | 1178000 |
| 40 | Paver re-carpeting of Nandi Park roads in Ward No.-10. | 1526000 |
| 41 | Paver re-carpeting of roads of Shyam Park in Ward No.-10. | 220000 |
| 42 | Paver re-carpeting of roads of Shilpapan Residency in Ward No.-10. | 1313000 |
| 43 | Paver re-carpeting of Krishna Park roads in Ward No.-10. | 1935000 |
| 44 | Paver re-carpeting of roads of Shivdrashti Society in Ward No.-10. | 777000 |
| 45 | Paver re-carpeting of roads of Shiv Aradhana Society in Ward No.-10. | 892000 |
| 46 | Paver re-carpeting of roads of Nandanvan Society in Ward No.-10. | 1208000 |
| 47 | Paver carpeting works of Sorathiya Park Society roads in Ward No.-11. | 1860000 |
| 48 | Paver re-carpeting of main roads of Shastrinnagar in Ward No.-11. | 1956000 |
| 49 | Paver re-carpeting of roads of Kaldhyan Park in Ward No.-11. | 778000 |
| 50 | Paver re-carpeting of roads of Ram Park Society in Ward No.-11. | 1146000 |
| 51 | Paver re-carpeting of roads of Pranami Park in Ward No.-11. | 2118000 |
| 52 | Paver re-carpeting of Akashdeep Society roads in Ward No.-11. | 979000 |
| 53 | Paver re-carpeting of roads of Labhdeep Society in Ward No.-11. | 1710000 |
| 54 | Paver re-carpeting of roads of Radhe-Shyam Society in Ward No.-11. | 982000 |
| 55 | Paver re-carpeting of roads of Mattel Society in Ward No.-11. | 415000 |
| 56 | Paver re-carpeting of roads of Swadhami Narayan Park in Ward No.-11. | 492000 |
| 57 | Paver re-carpeting of roads of Shri Hari Society in Ward No.-11. | 2538000 |
| 58 | In ward no. 12 That. Park, Shyam Park Main Road Paver Carpeting Work. | 4700000 |
| 59 | Asphalt re-carpeting work in Akashdeep Society, New Akashdeep Society Main Road and applicable streets in Ward No.-12 | 4600000 |
| 60 | Paver carpeting work in Sahajanandnagar Society in Ward No.-12 | 1050000 |
| 61 | Paver carpeting work in the streets of Punitnagar-8 and 12, in Ward No.-12. | 1300000 |

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| 62 | Re-road paver carpeting work in Madhavwatika-Ram in Ward No.-12. | 1300000 |
| 63 | Paver carpeting work from Shakitnagar Society to Akashdeep Society Road in Ward No.-12. | 1871000 |
| 64 | Paver carpeting work in Srinathji Park Street No. 4 in Ward No.-12. | 160000 |
| 65 | Dhruvnagar Asphalt Recarpeting Work. | 2006000 |
| 66 | Asphalt recarpeting work in the Aradhana Society. | 1414000 |
| 67 | Asphalt recarpeting work in Sakhianagar area. | 1230000 |
| 68 | Asphalt recarpeting work in Anjani Krishnakunj area. | 1429000 |
| 69 | Hari Park Chandreshnagar Main Road Asphalt Recarpeting Work. | 565000 |
| 70 | Asphalt recarpeting work at Thacker Lodge Miss Street. | 1861000 |
| 71 | Asphalt recarpeting work in Amarjitnagar area. | 1491000 |
| 72 | Asphalt recarpeting work in Jasani Park area. | 597000 |
| 73 | Asphalt recarpeting work in Swastik Society, Shreyas Society, Subhashnagar-2. | 2442000 |
| 74 | Asphalt recarpeting work in Bhomeshwarwadi area. | 2165000 |
| 75 | Chudasama Plot Society Asphalt Recarpeting Work. | 1128000 |
| 76 | Bhomeshwar Society Asphalt Recarpeting Work. | 804000 |
| 77 | Ashok Society and Narasimha Mehta Udyan Road Asphalt Recarpeting Work. | 1468000 |
| 78 | Sindhi Colony and Zulelanagar Asphalt Carpet Work. | 6375000 |
| 79 | Asphalt carpeting work at Shital Park, Balaji Park, Shriram Park, Bhakti Park, Sai Park, Nilkanth Park, Bhakti Park, Devtirtha and Radhika Residency. | 4623000 |
| 80 | Asphalt re-carpeting of Main Road from Gohil Chowk to Popatpara Pumping Station. | 3321000 |
| 81 | Asphalt recarpeting of Hemu Gadhvi road. | 1715000 |
| 82 | Asphalt recarpeting work on Gymkhana Main Road. | 1770000 |
| 83 | Recharging of Bhawaninagar Main Road and Bhawaninagar-1 road from Bezkot, Sealkot. | 550000 |
| 84 | Application to Lohanagar BSNL office as well as re-carpeting of opposite road as well as Tagore Road applicable road from Bezkot, Silkot. | 1008000 |
| 85 | Work to recarpet the road of Janata Society and Union Society from BezkotSealkot. | 4730000 |
| 86 | Repair work of roads of Janakalyan Society as well as LIC Society from Bezkot, Silkot to Recarpet. | 3403000 |
| 87 | Navalnagar street no. 5,6,7,8,10,12,13,14,15,16,17,18,18(B) Natraj Street, JD Pathak Main Road, Vidya Nikunjwali Street (JD Pathak) And asphalt recarpeting work from Guruprasad Chowk to Murlidhar Chowk. | 15543000 |
| 88 | Asphalt re-carpeting work in the area ofKotharia Colony (80 feet north of the road). | 9871400 |
| 89 | Asphalt recarpeting work in Jamnagar area. | 1687000 |
| 90 | Asphalt recarpeting work in New Meghaninagar area. | 1310000 |

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| 91 | Co-operation - Asphalt re-carpeting work in 2, 4, 6, 8 streets, in Ward No.-17. | 2510000 |
| 92 | Asphalt recarpeting work in Arjun Park and New Raghuveer area. | 1430000 |
| 93 | Asphalt recarpeting work in Ghanshyamnagar Main Road and other sub streets. | 2082700 |
| 94 | Asphalt recarpeting work on Indiranagar Main Road. | 1273800 |
| 95 | Main Road between Dhebar Colony and Narayanagar Society and NarayanagarZuppadpatti Main Road Asphalt Recarpeting. | 1850000 |
| 96 | Asphalt carpet work in Abhiram Park Street No. 03, in Ward No.-04. | 278000 |
| 97 | Asphalt carpet work in Abhiram Park Street No. 03 | 378000 |
| 98 | Asphalt carpeting work in Service Road of Bhagwati Para ROB | 522000 |
| 99 | Gayatri Dham Sosa. Asphalt carpeting work in | 727000 |
| 100 | Asphalt carpeting work in Indraprastha 2, Street No. 01, 03, 04 | 1112000 |
| 101 | Asphalt carpet work in Kailash Park, Sagar Park 3 and Jalsai Park | 951000 |
| 102 | Asphalt carpeting work in Khodiyar Park 1 Street No. 06 | 211000 |
| 103 | Asphalt carpeting work behind Kedar street in Lati plot area | 408000 |
| 104 | Asphalt carpeting work in Madhuvan Park 2 and Shreeji Park | 450000 |
| 105 | Asphalt carpet work in Bedi MPS Road | 280000 |
| 106 | Asphalt carpeting work in Naklang Park and Sai Park | 1510000 |
| 107 | Asphalt carpet work in TP Road opposite Ambika Park | 324000 |
| 108 | R K Resi. Asphalt carpeting work | 227000 |
| 109 | Asphalt carpeting work in Shri Ram Park, ParsanaSurpura Road | 1190000 |
| 110 | Asphalt carpet work in Sadguru Park Series No.1 | 114000 |
| 111 | Shivam Park and Keshav Resi. Asphalt carpeting work in | 856000 |
| 112 | Festival Sosa. Asphalt carpeting work in Seri No. 01, 02, 06 | 1174000 |
| 113 | Asphalt carpeting work in Vrindavan Villa 2 Main Road | 522000 |
| 114 | Asphalt re-carpeting work in Service Road of Bhagwati Para ROB | 592000 |
| 115 | Asphalt re-carpeting work at GurudevAwas Road and Mira Park Main Road | 689000 |
| 116 | Asphalt re-carpeting work in the street opposite Shramjivi Society, Swaminarayan Dairy in Bhagwatipara | 362000 |
| 117 | Ward no. 4, Work to pave road of different TP scheme | 26269000 |
| 118 | Supply of SDBC material in different area in ward no. 04 | 3121000 |
| 119 | Ward no.5, Asphalt carpeting work in Navagam Shakti Society (entire area) | 18360000 |
| 120 | Recarpeting work in the remaining streets of Brahmaniapara-1 and 3 Gadhia Street No. 4 and Shingala Plot | 455000 |
| 121 | Recarpeting work from Dudhsagar ESR to Dudhsagar Road | 685000 |

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| 122 | Recarpeting in the streets of Sanjay Nagar | 470000 |
| 123 | Ward no.6, JainDerasar Road paving work | 4976000 |
| 124 | Recarpeting work at Shri Ram Park, Anmol Park and Mansarovar | 2255000 |
| 125 | Recarpeting work from Someshwar Temple to Kabirvan Main Road | 1260000 |
| 126 | Road to Melody Mataji Temple and Carpeting at Panjrapol-6 | 510000 |
| 127 | Ward no. 6, Work to supply SDBC material in different areas | 3000000 |
| 128 | Asphalt recarpeting work at New Thorala New Sarvodaya Society | 2226000 |
| 129 | Asphalt recarpeting work at the new Thorala Awadh Park Society | 2133000 |
| 130 | Asphalt recarpeting work on the new Thorala Main Road | 4148000 |
| 131 | Asphalt carpeting work in AjiVasahat 80 ft Road Ramnagar Industrial | 3512000 |
| 132 | Asphalt recarpeting work on Khodiyarpara Main Road | 1002000 |
| 133 | Asphalt recarpeting work on Manharpara Main Road | 885000 |
| 134 | Ward no.15, Work to supply SDBC material in different areas | 3000000 |
| 135 | Asphalt recarpeting work up to Jungleshwar Main Road Radhakrishna Madhav Hall | 1771000 |
| 136 | Asphalt recarpeting work on New Sagar 80 feet road and Mahatma Gandhi 80 feet road | 2097000 |
| 137 | Asphalt recarpeting work in the streets of Sorathiyawadi | 2942000 |
| 138 | Asphalt recarpeting work in Nilkamal Park | 249000 |
| 139 | Mehulnagar street no. 12, 6 and 15 asphalt recarpeting work in Vrindavan Park | 1700000 |
| 140 | Meghaninagar street no. 1, 3, 5 and 6. Asphalt recarpeting work | 1129000 |
| 141 | Kedarnath Society Old Asphalt Recarpeting Work | 1523000 |
| 142 | Asphalt recarpeting work in New Kedarnath Society | 1418000 |
| 143 | Asphalt recarpeting work in Sitaram Society | 567000 |
| 144 | Turn Jungleshwar Garden Road Asphalt Recarpeting Work | 1600000 |
| 145 | Ward no.16, Work to supply SDBC material in different areas | 3000000 |
| 146 | Ward no.18, Asphalt carpeting work at Govindgreen Park, Old Swati Park | 7747000 |
| 147 | Ward no.18, Asphalt carpet work in Riddhi Siddhi Society | 2322500 |
| 148 | Ward no. 18, Dhareshwar Society, Lal Bahadur and New Lal Bahadur Co.Op. Asphalt recarpeting work in Sosa | 4039000 |
| 149 | Work to supply SDBC material in different area in ward no.18. | 3000000 |
| Total | | 30.3709000 Cr |

(A) Completed works with Asphalt re-carpeting of roads(2019-20)

| Sr. No. | Name of work | Cost of work(Rs) |
|---------|---|------------------|
| 1 | Asphalt re-carpeting of roads in Ward No.-1, Bharatvan Society Street No. 1 and 2 and Laxmi Residency Street No. 1 and 2. | 675000 |
| 2 | Asphalt re-carpeting of roads of Shanti Niketan- (A), (B) and (C), Tulshi Bungalow-1 and 2 and Shiv Park Street No.-1 in Ward No.-1. (SDBC) | 1635500 |
| 3 | Asphalt re-carpeting of roads from Alap Green City to Royal Avenue in Ward No.-1. | 1704700 |
| 4 | Asphalt carpeting work in Raiya village (part) and Khodiyamagar (part) in ward no-1. | 3957500 |
| 5 | Asphalt re-carpeting of roads in Kshatbhanjan Society in Ward No.-1. (SDBC) | 1503500 |
| 6 | Asphalt re-carpeting of roads in Ward No. 1, Gandhigram Street No. 10, 11 and 1. (SDBC) | 704700 |
| 7 | Asphalt re-carpeting of roads in Kailashdhara Park in Ward No.-1. (SDBC) | 1813700 |
| 8 | Asphalt re-carpeting of roads in ward no.9 | 2476000 |
| 9 | Asphalt re-carpeting of roads in Anjali Park in Ward No.-9. | 579000 |
| 10 | Asphalt carpeting of matting roads in Radhika Park Society in Ward No.-9. | 487000 |
| 11 | Asphalt carpeting of matting roads in Raiya Raj Society in Ward No.-9. | 571000 |
| 12 | on Raiya Road in Ward No. 9 Asphalt carpeting of the matting road in a street with a HP petrol pump. | 169000 |
| 13 | Asphalt re-carpeting of roads in Shreejinagar in ward no.9 | 793000 |
| 14 | Asphalt re-carpeting of roads in Somnath Society-1 in ward no.9 | 1637000 |
| 15 | Asphalt re-carpeting of roads in Somnath Society in ward no.9 | 1005000 |
| 16 | Asphalt re-carpeting of roads in Somnath Society-2 in ward no.9 | 2570000 |
| 17 | Asphalt re-carpeting of roads in Doctor Society, Telegraph Society and Balaji Park in Ward No.-9. | 1808000 |
| 18 | Asphalt re-carpeting of roads of Vrindavan Society in Ward No.-10. | 1509000 |
| 19 | Asphalt carpeting of the roads of the society with co-ordinated apartment in ward no-10. | 697000 |
| 20 | Asphalt re-carpeting of Shardanagar roads in Ward No.-10. | 1899000 |
| 21 | Asphalt re-carpeting of roads of Parijat Society in Ward No.-10. | 640000 |
| 22 | Asphalt re-carpeting of roads of Jivannagar and Gyanjivan Society in Ward No.-10. | 2293000 |
| 23 | Asphalt re-carpeting of roads of Jayotinagar in Ward No.-10. | 1122000 |
| 24 | Asphalt re-carpeting of Vimalnagar roads in Ward No.-10. | 1170000 |
| 25 | Asphalt re-carpeting of Rawalnagar roads in Ward No.-10. | 1147000 |
| 26 | Asphalt re-carpeting of roads in RK Nagar in Ward No.-10. | 1009000 |

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| 27 | Asphalt re-carpeting of Basher Park roads in Ward No.-10. | 900000 |
| 28 | Asphalt re-carpeting of Ami Park and Deshaldev roads in ward no-10. | 700000 |
| 29 | Asphalt re-carpeting of Silver Stone Society-1 and 2, Roads in Ward No.-8. | 2185000 |
| 30 | Asphalt re-carpeting of Tapovan Society roads in ward no 8. | 1706000 |
| 31 | Asphalt re-carpeting work in Kotechanagar street no. 1, 2, 3 and 4 in ward no. 8 and in the street behind Ashutosh Mahadev temple. | 1397000 |
| 32 | Asphalt re-carpeting of roads in Nalanda Society in Ward No.-8. | 2384400 |
| 33 | Asphalt re-carpeting of roads in Shri Colony Society in Ward No.-8. | 2664000 |
| 34 | Asphalt re-carpeting of two streets of Shivmanagar and roads of Narayanagar in ward no.8 | 2218400 |
| 35 | Paver road re-carpeting work of Silver Avenue and Niharika Apartments in Ward No.-8. | 1381000 |
| 36 | Asphalt re-carpeting work on Suryoday Society, ShankirtanMandirwala Road in Ward No.-8. | 722000 |
| 37 | Asphalt re-carpeting of road in Jay Park in ward no 8. | 564000 |
| 38 | Asphalt carpeting work on the road in Jivanath Park in ward no.8 | 437000 |
| 39 | Asphalt re-carpeting work in Mohannagar-1 and Mahavir Park in ward no.8 | 500000 |
| 40 | Asphalt re-carpeting of road in Pancharatna Park in Ward No.-8. | 1300000 |
| 41 | Asphalt re-carpeting of road in Surya Park Street No. 1 in Ward No. 8. | 221400 |
| 42 | Asphalt carpeting work on the road in Mahavir Park, behind Nirmala School in Ward No.-8. | 418000 |
| 43 | Asphalt carpeting work for Mwdi Pal Road, Awadh Road, Hemadri Culvert Approach in Ward No.-11. | 4538000 |
| 44 | Asphalt carpeting of Gail Park roads in Ward No.-11. | 860000 |
| 45 | Asphalt re-carpeting of roads in Patelnagar Co-operative Housing Society in Ward No.-11. | 2161000 |
| 46 | Asphalt re-carpeting of Krishna Park Society roads in Ward No.-11. | 2389000 |
| 47 | Asphalt re-carpeting of roads in Omnagar in Ward No.-11. | 27900 |
| 48 | Asphalt re-carpeting of roads of Kaldhyan Park in Ward No.-11. | 1873000 |
| 49 | Asphalt carpeting work in Sorathiya Park in Ward No.-11. | 2300000 |
| 50 | Asphalt carpeting work in the streets of Govindaratna Green City / Shanaishwar Park / Shyam Park in Ward No.-12. | 625200 |
| 51 | Asphalt carpeting work of Madhuvan, Nyu-Madhuvan, Shiv Vatika Pocket Road in Ward No.-12. | 3879000 |
| 52 | Asphalt carpeting work of Tirupati Park / Angan Park roads in Ward No.-12. | 114100 |
| 53 | Asphalt carpeting work in the roads applicable to Akhil Apartment in Ward No.-12. | 2051000 |
| 54 | Asphalt carpeting of roads in Gokulnagar-2 in ward no.12 | 820000 |
| 55 | Asphalt carpeting of roads in Khodiyar Industries Area in Ward No.-12. | 1010000 |
| 56 | Asphalt carpeting of roads in Krishnan Vallabhacharyadham Society in Ward No.-12. | 1412000 |

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| 57 | Work to re-carpet the road in Royal Park Society Street No. 1 in front of Sanskar City in Ward No. 12. | 1000000 |
| 58 | Asphalt recarpeting work in Marutinagar. | 3725000 |
| 59 | Asphalt recarpeting work in JagrutiShramjivi Society Street No. 1, 2, 3 and Bhomeshwar Plot Street No. 6 to 14. | 1983000 |
| 60 | Asphalt recarpeting work in Income Tax Society. | 506000 |
| 61 | Asphalt recarpeting work in VandanVatika. | 491000 |
| 62 | 150 feet Taruvar Flat Road Asphalt Recarpeting Work. | 661000 |
| 63 | 53 Quarter Main Road Asphalt Recarpeting Work. | 1757000 |
| 64 | Asphalt recarpeting work in Shivam Park Street No. 1 to 6 and Bhakti Park Street No. 1. | 1162000 |
| 65 | Asphalt recarpeting work in Siddhi Colony. | 1970000 |
| 66 | Asphalt recarpeting work in Gangotri Park. | 881000 |
| 67 | Asphalt recarpeting work on Astha Avenue. | 1130000 |
| 68 | Asphalt recarpeting work in Parsannagar. | 2496000 |
| 69 | Asphalt recarpeting work at Load Krishna and Krishna Park. | 2357000 |
| 70 | Asphalt recarpeting work in Shiv Drishti Park, Shraddha Park, Rushikesh Park, Aparna Park etc. | 2990000 |
| 71 | Asphalt recarpeting work in Raghunandan Society. | 2565000 |
| 72 | Asphalt re-carpeting of road from Bhootkhana Chowk to Lodhawad Chowk. | 882000 |
| 73 | Asphalt re-carpeting of the road near Gurukul water tank. | 495000 |
| 74 | Asphalt recarpeting of the road from Janakalyan railway track to Tagore Road. | 1564000 |
| 75 | Asphalt re-carpeting work in Panchsheel Society. | 5400000 |
| 76 | Asphalt re-carpeting work at Noble Street on Doshi Hospital Main Road. | 180000 |
| 77 | Asphalt re-carpeting work in Ambedkar Nagar Main Road. | 1712000 |
| 78 | Asphalt re-carpeting work in the sheri No. 9 of Ambedkar Nagar. (From the grant of Corp. Shri RavjibhaiKhimsuriya) | 383000 |
| 79 | Asphalt re-carpeting work in Dwarkesh Park area. (From the grant of Corp. Shri Jagrutiben Paddy) | 306000 |
| 80 | Asphalt recarpeting work at Shrirampark. | 1835000 |
| 81 | Asphalt recarpeting work in Krishnaji. | 1044000 |
| 82 | Asphalt recarpeting work in Meenakshi | 457000 |
| 83 | Asphalt recarpeting work in Gitajanli. | 3666000 |
| 84 | Asphalt recarpeting work in Gurujan. | 1217000 |
| 85 | Asphalt recarpeting work in New Subhashnagar B, C. | 1217000 |
| 86 | Asphalt recarpeting work in New Rameshwar. | 3286000 |

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| 87 | Asphalt recarpeting work in old Subhashnagar. | 2871000 |
| 88 | Asphalt recarpeting work in Viratnagar | 1612000 |
| 89 | Ward no.4 Asphalt recarpet ing work in JaiGurudev Park and Vrindavan Park | 2077000 |
| 90 | Ward no. 4, Asphalt recarpeting work in Laxman Park, Mira Park and Panchvati Park | 1611000 |
| 91 | Ward no.4 Asphalt recarpeting work in Shiv Shakti Society | 467000 |
| 92 | Ward no. 4 Asphalt recarpeting work in 7th Tirupati Park and Amrit Park | 1335000 |
| 93 | Ward no.4 Asphalt recarpeting work on Ganeshnagar Main Road | 357000 |
| 94 | Ward no.4 Asphalt recarpeting work in Jamna Park | 1264000 |
| 95 | Ward no. 4, AjiRiver Bank Road (Bedipara) Asphalt recarpeting work | 581000 |
| 96 | Ward no. 4, KabaKumbar Street (Bedipara) Asphalt Recarpeting | 179000 |
| 97 | Ward no.4 Shivaranjani Park Street no.1 Asphalt carpeting work . | 184000 |
| 98 | Ward no.4 Asphalt carpeting work in Sadguru Ranchhodnagar | 1358000 |
| 99 | Ward no. 4, Patch work in different places | 5585000 |
| 100 | Ward no.4 Paving work in different TP schemes | 22729000 |
| 101 | Ward no. 4, Paving and re-carpeting work in different TP schemes | 18313000 |
| 102 | Ward no. 5, Rantdeep, Keur Park and Maruti Society (SDBC) | 2549000 |
| 103 | Ward no. 5,Patel Park Ward Office Back Street (BC-SC) | 290000 |
| 104 | Ward no.5 ,Prajabatinagar and Sitaram Society (SDBC) | 1415000 |
| 105 | Ward no.5 Raghuvveer Society (SDBC) | 222000 |
| 106 | Ward no.5 Maldhari Main Road School no.67From Nala to Bapa Sitaram Madhuli | 787000 |
| 107 | Ward no. 5,Hanuman Nagar Street, Near Hudco Quarter | 212000 |
| 108 | Ward no. 5, Asphalt patch work in different places | 3055000 |
| 109 | Ward no. 6, Dharahar Market and Gadhiyanagar street recarpeting work. | 741000 |
| 110 | Ward no.6, Brahmaniyapara street no. 6,7 and recarpeting work in the sub street | 684000 |
| 111 | Ward no.6 Work to recarpet the main road leading to Pradhyuman Park. | 2630000 |
| 112 | Ward no. 6, Recarpeting work from Bhavnagar Road to Ramnathpara Bridge | 465000 |
| 113 | Ward no. 3, Shingala Plot Street No. 1,2 and recarpeting work in the sub street. | 277000 |
| 114 | Ward no. 6, child recarpeting work in the street in front of Hanuman Temple. | 150000 |
| 115 | Ward no.6,Asphalting of the road inside the 6th Garbage Station. | 1134000 |
| 116 | Ward no. 6, Sitaram Main Road, Carpeting to the corner of Derry. | 3058000 |
| 117 | Ward no.6 Recarpeting work in 8th BediparaSaifi Colony. | 355000 |
| 118 | Ward no. 6 Mehulnagar, Recreation work in the street near GurjarPrajabatini Wadi. | 169000 |

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| 119 | Ward no.6 Work to supply SDBC material in different area. | 3000000 |
| 120 | Ward no.15 Asphalt recarpeting work at Bhagwati Society, Dudhsagar Main Road | 3118000 |
| 121 | Ward no. 15, Asphalt re-carpeting work in Gameti Main Road (Manhar Society) | 480000 |
| 122 | Ward no. 15, Asphalt recarpeting work in Hindnagar, Dudhsagar Road | 550000 |
| 123 | Ward no. 15, Asphalt carpet and re-carpeting work in MeramBapa Wadi area, Bhavnagar Road | 1574000 |
| 124 | Ward no. 15, Asphalt recarpeting work, New Thorala | 1963000 |
| 125 | Ward no.15 Asphalt recarpeting work, Vinodnagar-1 (New Thorala) | 218000 |
| 126 | Ward no. 15, Asphalt recarpeting work at Shivdhara and Shivanagar Society on National Highway 18 (Lines are yet to be laid under Amrut Yojana) | 2815000 |
| 127 | Supply of material for asphalt patch work at different places | 3055000 |
| 128 | Ward no. 18 in RMC quarters, Asphalt recarpeting work in | 904000 |
| 129 | Ward no.16, Asphalt recarpeting work in Pooja Park | 473000 |
| 130 | Ward no. 16, Asphalt recarpeting work from Krishna Chowk to Nadodanagar | 825000 |
| 131 | Ward no. 16, Asphalt recarpeting work in Old Sagar Society | 1368000 |
| 132 | Ward no.16, Asphalt recarpeting work on Jungleshwar Main Road | 3032000 |
| 133 | Ward no.16, Asphalt recarpeting work in different streets of Mehulnagar | 2691000 |
| 134 | Ward no. 16, Asphalt recarpeting work in Neelam Park, Green Park, Shiyaninagar etc. | 2360000 |
| 135 | Ward no.16 Old Sunrise, New Sunrise and Asphalt Recarpeting in Bhojalram Society | 2735000 |
| 136 | Ward no.16, Asphalt recarpeting work on Ankur Society Main Road | 999000 |
| 137 | Under action plan 2018-20, ward no.16, Asphalt patch work in different places. | 2100000 |
| 138 | Under action plan 2018-20, ward no.18 Asphalt re-carpeting work in the main road and streets of Sardar Vallabhbhai Patel Society, Gurukrupa, Purusharth, Lal Park, Amarnath Soc., Gopal Park and Dhareshwar Society. | 4759000 |
| 139 | Under action plan 2018-20, ward no.18 Asphalt recarpeting on Satyanarayana Main Road and Jawahar street no. Asphalt carpeting work . | 1891000 |
| 140 | Under action plan 2018-20, ward no.18 Aspalav and Utsav Society in 17th Asphalt carpet work. | 7228000 |
| 141 | Under action plan 2018-20, ward no. 18, Asphalt patch work in different places. | 2200000 |
| Total | 26. 4610800 Cr | |

(B)Completed Road works with Metal (2019-20).

| Sr. No. | Name of work | Cost owork(Rs) |
|---------|--|----------------|
| 1 | 12 m and 9 m Matting road. Work at ward No.1 | 1102080 |
| 2 | Metalling work under 'Janbhagidari Yojana' on TP Road applicable to Atulayam Pride Apartment on Raiya Road in Ward No.-1. | 248006 |
| 3 | From Vasant Vihar Apartment in Ward No.-8 to Patidar Main Road 12.00 m. TP Road matting work. | 504799 |
| 4 | Mattling of TP roads near Kerala Park in Ward No.-2. | 2569695 |
| 5 | In ward no-14 from Wawdi village to Kangshiyali 24 m. D.P. Matting and paving work on the road. | 24711081 |
| 6 | Mattling work in sub-streets of Punitnagar Society Street No. 12 and 8 in Ward No.-12. | 405000 |
| 7 | Mattling of 18.00 TP Road applicable to Vavdi Main Road (24.00 m. DP Road) and Punitnagar (24.00 m. DP Road) in Ward No.-12. | 4228466 |
| 8 | Mattling work of Shyam Park / JK Park 80 feet Main Road behind Ramdhan in Ward No.-12. | 2482352 |
| 9 | Matting work in Sahajanand Street No. 2 and 3 in Ward No. 12 | 325326 |
| 10 | Ward no.4, Chamunda Park, Rajnagar, Shivaranjani etc. Drainage chareda matting work in the society | 1254000 |
| 11 | Ward no.4, Mattling of different TP roads on 19, 19, 18 | 16362000 |
| 12 | Ward no.4, Mattling of different TP roads on 14, 15, 18, 21 | 127860 |
| 13 | Ward no. 4, Matting work on the road with Mango Market | 467000 |
| 14 | Ward no.4, Mattling work in the street near TP-12 Radhamira Road | 1764000 |
| 15 | Ward no.5 Navagam Shakti Society Soling Metalling work in the ditch of drainage line | 9100000 |
| 16 | Mattling work in Ramnagar Industries area opposite 80 feet road field marshal in ward no.15 | 2152000 |
| 17 | Mattling work in Vasta Industries Area near Khokhar Dadi river on National Highway in Ward No. 15 | 376000 |
| 18 | Mattling work in Jay Siyaram Industries Area on National Highway in Ward No-15. | 490000 |
| 19 | Ward no.18, Matting work in VelnathJadeshwar Society | 6800000 |
| 20 | Ward no. 18, Kotharia, J.K.Park, Matting at Swati Park (Old), Balaji Park (Proposed-Title) and SadbhavnaResi. | 4660000 |
| 21 | Ward no. 18, Mattling work in Shivam Park, Govindgreen City area | 2026000 |
| Total | 8.3306405 Cr | |

(C)Completed TP Road works(2019-20)

| Sr. No. | Name of work | Cost owork(Rs) |
|---------|---|----------------|
| 1 | Asphalt re-carpeting work in BardanwalaKandhya Hostel Road (from Bharatvan Society to Vidyakunj Main Road) in Ward No.-8. (TP Road) | 1396000 |
| 2 | TP near Rajshrungar Party plot in ward no.8, Road (150 feet ring road to Saket Park-1) Asphalt re-carpeting work. (TP Road) | 988000 |
| 3 | Pata parallel (from Modi School to Under Bridge) asphalt re-carpeting work in ward no.8 (TP Road) | 6208000 |
| 4 | Asphalt re-carpeting work in Vaishali Nagar-1 (from Mahila College to Raiya Road) in ward no.8 (TP Road) | 2095000 |
| 5 | Asphalt re-carpeting work on Sahakarnagar Main Road (from Swami Narayan Mandir to Amarnath Mandir Chowk) in Ward No.-8. (TP Road) | 937000 |
| 6 | Re-carpeting of Women's College and Housing Board (Service Road) and Kalawad Road Approach Asphalt in Ward No.-8. (TP Road) | 3011000 |
| 7 | Asphalt re-carpeting work of Yogi Darshan Society Main Road (from Sahakarnagar Main Road to Guru Golwalkar Marg) in Ward No.-8. (TP Road) | 975000 |
| 8 | Asphalt re-carpeting work of Main Road (Nirmala Road to Guru Golwalkar Marg) with Mahavir Society in Ward No.-8. (TP Road) | 1171000 |
| 9 | Asphalt re-carpeting work with Imperial Heights Road and Tanti Park Main Road (up to Karan Park Main Road) in Ward No.-8. (TP Road) | 2282000 |
| 10 | Asphalt re-carpeting work on Silver Stone Main Road (from Nanamwa Main Road to Amin Marg) in Ward No.-8. (TP Road) | 4678000 |
| 11 | Pata parallel (from Modi School to Under Bridge) asphalt re-carpeting work in ward no. (TP Road) | 4379000 |
| 12 | Main Road asphalt re-carpeting work with Dholakia school in ward no. (TP Road) | 4379000 |
| 13 | TP from Balamukund Plot to Raiya Road (Satyam Park) in Ward No.-9. Road asphalt re-carpeting work. (TP Road) | 2033000 |
| 14 | Road asphalt re-carpeting work with Patel Kandhya hostel in ward no.9 (TP Road) | 3687000 |
| 15 | Main Road Asphalt Carpeting Work with Nand Village in Ward No.-9. (TP Road) | 2397000 |
| 16 | TP with Samaras Hostel in ward no.9 Asphalt carpeting of the road. | 1281000 |
| 17 | Asphalt carpeting work on Sopan Habitat TP Road in Ward No.-9. | 1758000 |
| 18 | Patidar TP from Vasant Vihar in ward no.9 Asphalt carpeting of the road. | 1440000 |
| 19 | Paver re-carpet work on the main road with Casa Copper Apa on Satyasai Main Road. | 6069000 |
| 20 | Main Road asphalt re-carpeting work with Sagun Residency in Ward No.-10. (TP Road) | 1903000 |

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| 21 | In Ward No.-10 from Angan Restaurant to Saibaba Park C.C. Asphalt re-carpeting work up to the road. (TP Road) | 1208000 |
| 22 | Main Road Asphalt Re-Carpeting with AG Staff Quarters in Ward No.-10. (TP Road) | 2194000 |
| 23 | Re-carpeting of Main Road Asphalt with Left Housing Scheme in Ward No.-10. (TP Road) | 2096000 |
| 24 | Main Road asphalt re-carpeting work with Satya Sai Hospital in Ward No.-10. (TP Road) | 6069000 |
| 25 | In ward no.-11 from Ireland to housing scheme 12.00 m. TP Asphalt carpeting work on Mattling Road. | 3428000 |
| 26 | Mwdi Main Road 24.00 m in Ward No.-12. TP Mattling and asphalt carpeting work on the road (from Thakar Hotel Chowk to Ramdhan's Wonkla). | 4062000 |
| 27 | Asphalting of road connecting Chhatrapati Shivaji Township and other housing schemes. | 58800000 |
| 28 | Sadhuvaswani Kunj Road to GSB And asphalt work. | 41900000 |
| 29 | Construction of Santoshinagar Main Road. | 53336000 |
| 30 | Recarpeting of junction plot and coalfield area. | 28553000 |
| 31 | Maharshi Dayanand Saraswati Township and Metling TP in Relangar. Asphalting the road. | 19497000 |
| 32 | Mattling work in Ward No. 3, Awadh Park Street No. 1 to 5. | 1268410 |
| 33 | Matting of Balaji Park-1 road in ward no.3 | 577555 |
| 34 | work of soling matting the TP road 24.00 m, Mary Gold Heights in Ward No.3 | 3970648 |
| 35 | work of soling matting the TP road 12.00 m, Ashirwad School in Ward No.3 | 4052746 |
| 36 | Matting work in Bhakti Park and other streets in ward no.3 | 1149125 |
| 37 | work of soling matting the TP road 9.00 m, Radhika Residency in Ward No.3 | 1207109 |
| 38 | Under TP scheme no 23, Matting of roads in Ward No.3 | 26040000 |
| 39 | Under TP scheme no 24, Matting of roads in Ward No.3 | 25706000 |
| 40 | Under TP scheme no. 23, 24, Matting of remaining roads in Ward No.3 | 27080000 |
| Total | | 36.0882593 Cr |

(D)Completed Paver Road works(2019-20)

| Sr. No. | Name of work | Cost owork(Rs) |
|---------|---|----------------|
| 1 | Roads from Shahnagar Airport Wall to Satyanarayana Nagar-II | 1300000 |
| 2 | Amrut Park Main Road Street No.-1 to City Cinereum Complex. 12.0 m TP Road | 2400000 |
| 3 | Amin Marg (150 feet ring road from Patel Bhel Chowk) | 8076000 |
| 4 | Panchvati Road (Atithi Chowk to Kalavad Road) | 8324000 |
| 5 | Giriraj Hospital Road (150 feet from Ring Road to Satya Sai Marg) | 2577000 |
| 6 | Asphalt re-carpet work from Panchvati Hall to Railway Pata Road. | 800000 |
| 7 | Palm City Main Road (Patidar Chowk to Raiya Road) | 2582000 |
| 8 | Sadhu Vaswani Road to Palm City Road | 4569000 |
| 9 | Topland Residency Main Road | 2198000 |
| 10 | Character Park Main Road | 1100000 |
| 11 | TP from Raiya Road to RaiyaSmashan Slab Culvert. Approach Road | 3600000 |
| 12 | TP from Raiya Road to Sai Darshan Slab Culvert. Approach Road | 394000 |
| 13 | Juno University Road from Prem Mandir to Gardi Gate | 10334000 |
| 14 | Women's I.T.I. Main Road | 1544000 |
| 15 | Saurashtra Kala Kendra Main Road Marg 2 | 4066000 |
| 16 | Re-carpeting of RK Nagar Main Road. | 2024000 |
| 17 | Asphalt re-carpeting of Vrindavan Society Main Road. | 8088000 |
| 18 | Rajdip Society Street No. 3, Krishna's Dairy Road | 2011000 |
| 19 | Road from Mwdi Cemetery to Drainage Pumping Station | 2429000 |
| 20 | Mwdi Cemetery TP Road to Pal Road TP Road | 2697000 |
| 21 | Mwdi TP. Road to Kasturi Residence TP. Road | 1347000 |
| 22 | 150 feet ring road Twin Star Building Road | 1951000 |
| 23 | Re-carpeting of 40 feet Main Road (Nandanvan-R Chowk to Thakar Hotel Chowk). | 4784000 |
| 24 | Re-carpeting of Bhawaninagar Main Road (Ambedkar Nagar Chowk to Radhe-Krishna Chowk). | 2150500 |
| 25 | Shelter Greens, re-carpeting of Earth Pan Main Road. | 1861000 |
| 26 | Vavdi applicable to Punitnagar 12.00 m TP Paver carpeting work in road and approach. | 6000000 |
| 27 | Asphalt re-carpeting work on Kashi Vishwanath Plot Main Road. | 773000 |
| 28 | sphalt re-carpeting from Jamnagar May Road Jamtawar Chowk to Bajrangwadi Police Station | 9326000 |

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| 29 | Asphalt re-carpeting work on Gitgurjari Society-1 (Mahakaleshwar temple to Padmakunwarba plot). | 2897000 |
| 30 | Shroff road asphalt re-carpeting work. | 2663000 |
| 31 | Asphalt re-carpeting work in Jamnagar Road, Central Jail Road and Parsannagar Street No. 4, 5, 6, 7 and 8. | 14718000 |
| 32 | Madhapar S.T.P. | 495000 |
| 33 | Khatara Stand Road, from Junction 5 to Morbi House | 1449000 |
| 34 | Asphalt re-carpet work from Kanak Road to Lakhajiraj Road. | 7632000 |
| 35 | Asphalt re-carpeting work from Dhebarbhai Road, Nagrik Bank Chowk to KantaStri Vikas Chowk. | 4815000 |
| 36 | Asphalt re-carpeting of Dr. Rajendra Prasad Road from Lemda Chowk to Harihar Chowk. | 2404000 |
| 37 | Asphalt re-carpeting work from Kishanpara Chowk to MahilaUnderbridge. | 3175000 |
| 38 | Asphalt re-carpeting work in Vaidwadi Industries area. | 13635000 |
| 39 | Asphalt re-carpeting work in different streets of Navrangpara Industries Area. | 1727000 |
| 40 | Asphalt re-carpeting work in Vinay Society and AmbajiKadwa Plot Street No.5. | 1560000 |
| 41 | Asphalt re-carpeting work on Kotharia Main Road, Dharmajivan Main Road, Vaniyawadi Main Road and Pardi Main Road. | 14700000 |
| 42 | Asphalt re-carpeting work on one side Kotharia Main Road from Anandnagar Main Road to KothariaChokdi on the west side. | 14700000 |
| 43 | Subhashnagar Main Road (Navneet Hall - Radhuvveer Health Center) Asphalt re-carpeting work. | 2210000 |
| Total | | 18.8085500 Cr |

(E)Completed Paving block Roadworks(2019-20)

| Sr. No. | Name of work | Cost owork(Rs) |
|---------|---|----------------|
| 1 | Laying of paving block under public participation scheme in road side in New Mahavirnagar in Ward No.-1. | 3407821 |
| 2 | Paving block fitting work in Shastrinnagar Street No. 2 and 3 in Ward No. 1. "Public Participation" (Grant of Hon'ble MLA Shri VijaybhaiRupani for the year 2017-2018) | 3292289 |
| 3 | Laying of paving block under "Janbhagidari Yojana" in Jivantikanagar in Ward No.-1. (Grant of Hon'ble MLA Shri VijaybhaiRupani for the year 2016-2017) | 1392715 |
| 4 | Laying of paving blocks on both sides of the road in the remaining part of Dharamnagar Main Road in Ward No.-1 under public participation scheme. | 909444 |
| 5 | Laying of paving blocks under "Janbhagidari Yojana" in Shahnagar and Shaktinagar in Ward No.-1. (Grant of Hon'ble MLA Shri VijaybhaiRupani for the year 2016-2017) | 1492319 |
| 6 | Installation of paving block under 'Janbhagidari Yojana' in road side solder in Harsiddhidhidham (proposed) in Ward No.-1. | 649397 |
| 7 | Installation of chain link mesh and inter locking paving block in the hawkers zone next to Sterling Hospital near Nanavati Chowk in Ward No.-1. | 3232000 |
| 8 | Laying of block under 'Janbhagidari Yojana' in Common Plot of Royal Avenue Park in Ward No.-2 | 708734 |
| 9 | Paving block in the remaining part of Hawkers zone on Nanamwa Road. | 785415 |
| 10 | Laying of block under 'Janbhagidari Yojana' in the common plot of Vidyakunj Society in ward no.8 | 744941 |
| 11 | Installation of paving block under 'Janbhagidari Yojana' in Common Plot in Chaitanya Bungalows in Ward No.-8. | 380374 |
| 12 | Work of laying inter locking paving block in hawkers zone near GurujinagarAwas Yojana in ward no.9 | 1144710 |
| 13 | In Ward No.-9, Saurashtra Uni. Employee Co. Laying of paving block under public participation scheme in road side soldering in society. | 2784513 |
| 14 | Work of laying paving block in GurujinagarAwas Yojana in ward no.9 | 6151725 |
| 15 | Laying of inter locking paving block under "Janbhagidari Yojana" in road side solder of Shivpara, Ramnagar, Hiramannagar in ward no. (10% grant of Hon'ble MLA Shri VijaybhaiRupani for the year 2018-2019) | 3720141 |
| 16 | From Ward No. 2,Bapasitaram Chowk (Raiya Road) to Patidar Chowk 15.00 m. TP Paving work from the interlocking block in the side solder of the road. | 10228265 |
| 17 | nstallation of Inter Locking Paving Block under 'Janbhagidari Yojana' in the road side solder of Bhidbhanjan Society in Ward No.-2. (10% grant of Hon'ble MLA Shri VijaybhaiRupani for the year 2018-2019) | 1500000 |
| 18 | Laying of paving block in the side solder of the garden road of Rudanagar-(2) on University Road in Ward No.- | 238838 |

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| | 10. | |
| 19 | Installation of paving block in the common plot of Sadgurunagar on University Road in Ward No.-10. | 760413 |
| 20 | Work of installing paving block in Phulwadi Park and various places in ward no-10. | 839488 |
| 21 | Installation of paving block and pipe gutter in open plot next to Bhakitdham Ashram on Kalavad Road in Ward No.-10. | 1686783 |
| 22 | Installation of paving block in the remaining part of road side solder on Nirmala Main Road in Ward No.-10. | 439109 |
| 23 | work of laying paving block in the road side solder in RK Nagar street no. 4 to 8 in ward no. 10, (Grant of Hon'ble MLA Shri VijaybhaiRupani for the year 2018-2019) | 492455 |
| 24 | work of laying paving block in road side solder in ward no. 10, RK Nagar street no. 1 to 8. (Grant of Hon'ble MLA Shri VijaybhaiRupani for the year 2018-2019) | 487316 |
| 25 | Laying of paving blocks in road side solder in Panchayat Nagar and various places in ward no.-10. (Grant of Corporator for the year 2018-2019) | 160324 |
| 26 | In Ward No.-10, Navinnagar, Jalaram Plot and various places have installed paving blocks in the road side solders. | 973539 |
| 27 | A.G. Chowk Pushkardham Main Road in Ward No.-10. Laying of paving blocks in the side solder of both the sides of the road from Chowk to University Road. | 8944211 |
| 28 | Work of installing paving block under 'Janbhagidari Yojana' in common plot of Rudanagar-(1) in ward no-10. | 263776 |
| 29 | In Ward No.-11, in Aksharvatika Society, in the chowk near the temple, the work of installing paving block from the grant year 2018-2019 of Hon'ble MLA Shri LakhabhaiSagthiya. | 243422 |
| 30 | Construction of parking paving and footpath from MwdiSulabh to Ramdhan in Ward No.-11. | 13382250 |
| 31 | In Ward No.-11, Work of installing paving block in Khodiyar Complex, Shakitnagar closed street , from the grant year 2018-2019 of Hon'ble MLA Shri LakhabhaiSagthiya. | 278707 |
| 32 | Work of installing paving block in the streets of Radhika Park Society in ward no-1 under public participation scheme. (20% Corporator's Grant) | 811699 |
| 33 | Installation of Paving Block on Main Road from Vinayaknagar to Nandbawa Chowk in Ward No.-1. (Grant of Hon'ble MLA Shri LakhabhaiSagthiya for the year 2018-2019) | 314730 |
| 34 | In ward no. 2, from Bajrangwadi street 1 to 11 circle, east side area and Puneetnagar main road, Laying of paving block in the side of the road. | 3890633 |
| 35 | Ward no. 2PunitnagarPujapark, Pawan Park, Bhomeshwar Sosa. And laying of paving block in the side wall of the applied area | 4198443 |
| 36 | Ward No. 2, Bajrangwadi Circle to West Side Seri No. 12 to 15 and laying of paving block in the side of the applied road | 4079768 |

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| 37 | Ward no. 2, Jamtawar Road and Niranjana's Society Opp. Road side soldering and paving work in Chhotunagar common plot | 4216338 |
| 38 | Laying of paving block in Gayatri Dham Society, Mochinagar-2 and Relnagar-2 part side solder and common plot of Relnagar-2 in ward no.2 | 3500000 |
| 39 | Laying of paving block in side solder in ward no-2 in Mochinagar-1, Sanjaynagar, Usmania Park, Momin Society, Rajivnagar and Bajrangwadi part area. | 3833000 |
| 40 | Work of laying paving block on the side of the road in Bhomeshwar plot and JagrutiShramjivi Sosa, part etc. in ward no.2 | 4920000 |
| 41 | Laying of paving block on the side of the road in Vandavatika, Green Park, Divyasiddhi Park etc. area near Airport Road in Ward No. 02. | 4945000 |
| 42 | Laying of paving block on the side of road in Geetgurjari Sosa, Krushnakunj Sosa etc. in ward no.2 | 4967000 |
| 43 | Ward No. 09, inSreejinagar, Journalist Society Main road, behind Bahumali bhavan Road etc. | 4992000 |
| 44 | Ward no.4, Laxman Park Main Road, 80 ft road, 50 ft road Main road Laying of road level paving blocks on sidewalks. | 8737000 |
| 45 | Ward no. 5. Narasimhanagar Main road Laying of paving bulk on the road side | 440000 |
| Total | | 12.5561045 Cr |

Traffic monitoring and Public alert system should be developed to avoid traffic jam. At present 25 places are identified by RMC as high traffic spot.

| Sr.No. | Location |
|--------|------------------------|
| 1 | Ramadevpeer Circle |
| 2 | Hanuman Madhi |
| 3 | Raiya telephone Circle |
| 4 | Indira Circle |
| 5 | KKV Chowk |
| 6 | Big bazar Circle |
| 7 | Nana Mava Circle |
| 8 | Raj Nagar Chowk |
| 9 | Makkam Chowk |
| 10 | Debhar Chowk |
| 11 | TrikonBaug |
| 12 | Jubilee Chowk |
| 13 | Jaddu'sChowk |
| 14 | Delux |
| 15 | KantaStriVikasgruh |
| 16 | Nagrik Bank chowk |
| 17 | Cosmo circle |
| 18 | Punit Nagar |
| 19 | Greenland circle |
| 20 | Raiya Circle |
| 21 | Amul Circl |
| 22 | JillaPanchayatchowk |
| 23 | Limda chowk |
| 24 | Mavdi circle |
| 25 | Jamtower circle |

RMC has also provided continuous environment sensors at various 19 no's locations, For the continuous monitoring of various six air quality parameters viz. NO₂, CO, SO₂, O₃,PM_{2.5}, PM₁₀.The values are made available through online mobile application.

| Sr. No | Environment sensors locations | Parameters showing on the dashboard |
|--------|-------------------------------|---|
| 1 | Delux, Rajkot | 1.Temperature 2.Humidity 3.AQI 4.O ₃ Parameter Of AQI isNO ₂ ,CO,SO ₂ ,O ₃ ,PM _{2.5} , PM ₁₀ in (µg/m ³), Noise(dB). |
| 2 | RMC East Zone, Rajkot | |
| 3 | Race Course | |
| 4 | Kothariya | |
| 5 | Mahila College | |
| 6 | Aji Dam | |
| 7 | RMC | |
| 8 | Jaddus | |
| 9 | Morbi Road | |
| 10 | Greenland Chowk | |
| 11 | Hospital Chowk | |
| 12 | MadhaparChowk | |
| 13 | Devpara | |
| 14 | Jilla Panchayat | |
| 15 | Atika | |
| 16 | Sorathiyawadi | |
| 17 | Nana Mauva Circle | |
| 18 | PradumanBaag | |
| 19 | Trikonbag | |

giz Country Office New Delhi, 46, Paschimi Marg, Vasant Vihar, New Delhi 11 00 57 India

Mr D M Thaker
Member Secretary
Gujarat Pollution Control Board
Paryavaran Bhavan, Sector 10-A,
Gandhinagar

Subject: Developing State Action Plan for Gujarat on Clean Air as required under the National Clean Air Programme

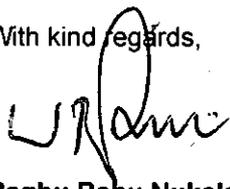
Dear Mr Thaker,

Under the ongoing Indo German Development Cooperation, the project on "Reduction of Air Pollution in Three Indian Cities" [selected cities: Surat (Gujarat), Pune and Nagpur (Maharashtra)] is being implemented by GIZ. The implementing partner to the project is the Ministry of Environment, Forest and Climate Change, Government of India (MoEF&CC).

In response to the request from GPCB for support in formulating the State Action Plan for Gujarat on Clean Air under NCAP, we are pleased to inform that GIZ has engaged consultants M/s EMC LLP with a team of experts headed by Dr. Prasad Modak. The TOR for the assignment is attached for reference. The initial interactions among the consultants, GIZ and GPCB have already taken place at Gandhinagar.

We request GPCB to kindly extend necessary cooperation and support and work closely with the consultants. GPCB may kindly nominate a nodal officer for closely coordinating this activity with the consultants.

With kind regards,



Raghu Babu Nukala
Programme Director
Reduction of Air Pollution in Three Indian Cities

Encl: As above

**German Development Cooperation
Reduction of Air Pollution in Three Indian
Cities**

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Programme Director

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Your reference
Our reference Clean Air/ G/ 2022/
Date 28.07.2022

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Chairperson of the Supervisory Board
Jochen Flasbarth, State Secretary

Management Board
Tanja Gönner (Chair)
Ingrid-Gabriela Hoven
Thorsten Schäfer-Gümbel

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| Gujarat Pollution Control Board | |
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23

Terms of Reference (ToRs) for developing State Action Plan for Gujarat on Clean Air as required under the National Clean Air Programme

Context

The National Clean Air Programme (NCAP) is being overseen by MoEFCC in close cooperation with the Central Pollution Control Board. Several organisations at national, state and local levels are involved in implementation of NCAP. <http://www.prana.cpcb.gov.in/#/home>.

The States are required to prepare State Action Plans for clean air under the National Clean Air Programme. MoEFCC has issued an Office Memorandum (13 October 2021) to all the States covered under NCAP along with an "Indicative Template for State Action Plan" to be used for formulating the State Action Plans. The indicative template for preparation of State Action Plan requires activities/actions on:

- Industrial emissions (18 actions/activities)
- Vehicular emissions (12 actions/activities)
- Construction & Demolition Waste and Road Dust Management (12 actions/activities)
- Emissions from burning of waste (14 actions/activities)
- Emissions due to burning of agro residues (9 actions/activities)
- Household emissions (3 actions/activities)
- Others as may be relevant to Gujarat

The Gujarat Pollution Control Board (GPCB) has requested GIZ to extend support for preparation of State Action Plan as mandated by MoEFCC. GIZ is considering supporting the Gujarat Pollution Control Board in developing a State Action Plan for Gujarat on clean air incorporating various timebound actions to be taken by various agencies of Gujarat in the lines of the template circulated by MoEFCC.

Towards this, GIZ is proposing to engage a competent national consulting organization for providing consultancy services for developing a State Action Plan for Gujarat as required under the National Clean Air Programme.

Tasks to be performed by the contractor

The objective of the consultancy services

The overall objective of the consultancy services is to develop State Action Plan for Gujarat State for Clean Air in accordance with the OM dated 13th October 2021 of MoEFCC (Annexure 1) addressing the activities that would improve air quality under the National Clean Air Programme

Scope of services

1. The State Action Plan for Gujarat is to be developed comprehensively covering the following in accordance with the OM of MoEFCC dated 13th October 2021 and the template given therein:

- Industrial Emissions (18 actions/activities)
- Vehicular Emissions (12 actions/activities)

- Construction & Demolition Waste and Road Dust Management (12 actions/activities)
- Emissions from burning of waste (14 actions/activities)
- Emissions due to burning of agro residues (9 actions/activities)
- Household emissions (3 actions/activities)
- Others as may be relevant to Gujarat

Ref. to Annexure for details of activities/actions to be included in the State Action Plan.

2. For each action/activity as in (1) above, the following details should be provided in the State Action Plan:
 - a) For new activities/actions
 - Description of the activity
 - Air pollution estimates/potential from the activity
 - Suggested actions/activities/measures
 - Targeted pollution reduction (parameters, %)
 - Action plan for implementation including milestones and timelines
 - Fund requirements
 - Responsibility - institutional mechanisms for implementation
 - b) For ongoing activities/planned activities
 - Status of activity (Completed/ Ongoing/ To be Started)
 - Timeline for Completion
 - Target (Coverage/ Percentage)
 - Financial implications (Yes/ No) Funds Allocated (Rs crore) Funds Utilized as on date (Rs crore)
3. The following instructions as given in the OM dated 13th October 2021 of MoEFCC to be complied with or addressed adequately with guidance/methodology while preparing the State Action Plan:
 - Air quality is affected by both regional and background contributions hence actions at state and regional levels which also consider the airshed approach are required.
 - Identification of prominent air polluting sources: Inventory of air pollution sources in State/UT including hotspots or areas of concern pertaining to air pollution should be carried out.
 - Hotspots of air pollution: Hotspots with respect to air pollution (such as stubble burning, illegal waste burning, un-authorized operations, cluster activities, forest fires etc.) should be identified and localised action plan for mitigation of the same should be prepared.
 - Categorization of industrial zones into red, orange, and green sectors has already been implemented so states may choose to permit or ban an industry depending on the state of the environment in their state or zones, for example- in TTZ some industries are banned. A similar strategy could be adopted by other states.
 - Ambient air quality data: Plan to get access to available air quality monitoring stations in the State/UT operated by both public and private agencies. Quantification of improvement in existing air quality.
 - Awareness on Air Quality: To develop Mobile App / Online portal for dissemination of air quality as well as to take complaints on local air pollution.

Terms of Reference (ToRs) for developing State Action Plan for Gujarat on Clean Air as required under the National Clean Air Programme

- State Action plan may dwell upon other relevant action points as per need and requirement of that state which are not mentioned in above template.

4. Tasks to be carried out:

- Main Task 1: Preparation of draft content and structure of the proposed State Action Plan and work planning
- Main Task 2: Rapid assessment of sources of air pollution in Gujarat
- Main Task 3: Preparation of State Action Plan for Gujarat on Clean Air

Tasks to be performed

The contractor is responsible for providing the following services as per the tasks mentioned in the table below:

| | |
|---|---|
| <p>Main Task 1: Preparation of draft content and structure of the proposed State Action Plan and work planning</p> | <p>Sub-task 1: Review the MoEFCC OM dated 13 October 2021 and the State Action Plans prepared by any other State in India.</p> <p>Consult with Gujarat SPCB and other key stakeholders and understand the needs and contents for developing the State Action Plan for Gujarat for Clean Air.</p> <p>Sub-task 2: Develop a draft structure/contents of the proposed State Action Plan for Gujarat for Clean Air, approach to be followed, and preparation of a work plan with activities and timelines.</p> <p>Sub-task 3: Consult with GPCB and finalise the same.</p> |
| <p>Main Task 2: Rapid assessment of sources of air pollution in Gujarat</p> | <p>Sub-task 1: Collect/collate information on the sources of air pollution in Gujarat (sector wise emission inventory), the ambient air quality trends of the last 10 years and data on major emission sources, emissions and pollution caused by the identified sources, status of pollution control etc. . In particular, collect information on the following aspects as detailed in section 2.2 Scope of Services:</p> <ul style="list-style-type: none"> • Industrial Emissions – corresponding to 18 actions/activities • Vehicular Emissions – corresponding to 12 actions/activities • Construction & Demolition Waste and Road Dust Management – corresponding to 12 actions/activities • Emissions from burning of waste – corresponding to 14 actions/activities • Emissions due to burning of agro residues – corresponding to 9 actions/activities • Household emissions – corresponding to 3 actions/activities • Others as may be relevant to Gujarat <p>Some guiding questions and relevant aspects of data & information collection are:</p> |

| | |
|--|--|
| | <ul style="list-style-type: none"> • Detail out the activities that are sources of air pollution in Gujarat, viz. industry, vehicles, construction & demolition waste, burning of waste, agro-wastes and households. • What is the estimate/potential of air pollution from these sources, viz. industry, vehicles, construction & demolition waste, burning of waste, agro-wastes and households and their contribution to ambient air quality? What is extent of air pollution and levels of air pollution caused by these sources? • What is the status of air pollution control from these sources? • What are issues of concern related to air pollution control from these sources? <p>In terms of activities:</p> <ul style="list-style-type: none"> • Collect secondary information through sources like websites, published reports, documents from various departments of Government of Gujarat, literature searches and information from other reliable sources. • Collect primary information through one-to-one meetings/ interaction with relevant stakeholders and focus groups. • Compile/ collate information/ data on existing ambient air quality monitoring infrastructure/ system operational across the state like number of stations, their locations, type i.e. manual, continuous, sensor-based, satellite based-etc, parameters monitored, operating agency i.e. regulatory agencies, ULBs, reputed Academic/ Research/ Non Governmental Organizations/ Institutions, private sector etc. • Compile ambient air quality data mainly from GPCB, CPCB under NAMP, SAMP, CAAQMs data, Annual Report etc, from other government sources like SAFAR programme, Smart City Mission etc. Air Quality data from private sector (industries) available in public domain or with regulatory agencies, satellite data, from reputed Academic/ Research/Non Governmental Organizations/ Institutions. Air quality data compilation should include available data on criteria pollutants (PM₁₀, PM_{2.5}, NO₂, SO₂, CO, O₃) considered by CPCB for AQI calculation. Air quality trends for 10 years should be prepared and produced graphically for the air quality data monitored as per CPCB guidelines. • Collect data/ information on major emission sources from various major sectors like transport, industrial (including power plants, brick kilns), domestic- household, construction and demolition activity, road dust, biomass (including agro-waste) and waste burning, trans-boundary, etc. with an overview of spatial distribution and broad estimation of their contribution to PM₁₀, PM_{2.5} load in ambient air i.e. sector wise emission inventory for the State in a broad perspective shall be prepared. • Collect information on the departments of the State Government and its agencies/ organizations at the State level are responsible for: (a) the activities/ actions mentioned in the |
|--|--|

| | |
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| | <p>template framed by MoEFCC for State Action Plan, (b) other sources/ activities identified which may have direct or indirect impact on air quality? Collect information on key responsible officials of the concerned departments/ organizations. An indicative list of departments of Government of Gujarat and relevant agency/ies are: Forests & Environment Department (Gujarat Pollution Control Board), Port & Transport Department (Commissioner of Transport, Gujarat Maritime Board, Gujarat State Road Transport Corporation), Road & Building Department, Industries & Mines Department (GIDC, Commissioner of Geology & Mining, Industries Commissionerate), Urban development Department, Agriculture Department, Civil Supplies Department, Energy & Petrochemical Department.</p> <p>Sub-task 2: Based on the above information and data, prepare draft assessment report on air pollution in Gujarat including sources of air pollution, emission levels, air quality, issues of concern needing actions etc.</p> <p>Sub-task 3: Consult with GPCB, the State authorities and stakeholders through meetings, consultations and workshops as appropriate, on the draft report prepared for taking their inputs. Accordingly finalise the report.</p> |
| <p>Main Task 3: Preparation of State Action Plan for Gujarat on Clean Air</p> | <p>Sub-task 1: Prepare draft State Action Plan for Gujarat State on Clean Air in the given template as per MoEFCC OM dated 13th October 2021.</p> <p>Some guiding questions and relevant aspects of development of State Action Plan are:</p> <ul style="list-style-type: none"> • The following sectors to be addressed: <ul style="list-style-type: none"> ○ Industrial Emissions (ref. to 18 actions/activities) ○ Vehicular Emissions (ref. to 12 actions/activities) ○ Construction & Demolition Waste and Road Dust Management (ref. to 12 actions/activities) ○ Emissions from burning of waste (ref. to 14 actions/activities) ○ Emissions due to burning of agro residues (ref. to 9 actions/activities) ○ Household emissions (ref. to 3 actions/activities) ○ Others as may be relevant to Gujarat <p>Ref. to Annexure for details of activities/actions to be included in the State Action Plan. Additional activities/actions to be included as may be relevant to Gujarat.</p> <ul style="list-style-type: none"> • For each action/activity as in (1) above, the following details should be provided in the State Action Plan: |

| | |
|--|---|
| | <p>Detail out for new activities/actions:</p> <ul style="list-style-type: none"> ○ Description of the activity ○ Air pollution estimates/potential from the activity ○ Suggested actions/activities/measures ○ Targeted pollution reduction (parameters, %) ○ Action plan for implementation including milestones and timelines ○ Fund requirements ○ Responsibility - institutional mechanisms for implementation <p>Detail out for ongoing activities/planned activities:</p> <ul style="list-style-type: none"> ○ Status of activity (Completed/ Ongoing/ To be Started) ○ Timeline for Completion ○ Target (Coverage/ Percentage) ○ Financial implications (Yes/ No) Funds Allocated (Rs crore) Funds Utilized as on date (Rs crore) <ul style="list-style-type: none"> • The instructions as given in the OM dated 13th October 2021 of MoEFCC to be complied with while preparing the State Action Plan. • Include recommendations for Monitoring, Evaluation and Reporting of progress of implementation of the State Action Plan, including its periodic updation. <p>Sub-task 2: Consultations/meetings/workshops with GPCB, State authorities and stakeholders to seek comments/ views on the draft State Action Plan for Gujarat on Clean Air .</p> <p>Sub-task 3: Prepare final State Action Plan for Gujarat on Clean Air incorporating comments/suggestions/inputs from GPCB and other stakeholders.</p> <p>Sub-task 4: Conduct a training workshop for GPCB and other relevant State agencies and stakeholders on implementation of the prepared State Action Plan, monitoring and managing the implementation and updating of the plan as may be required.</p> |
|--|---|

Certain milestones, as laid out in the table below, are to be achieved by certain dates during the contract term, and at particular locations:

| Milestone/ Deliverables | Deadline/place/pers on responsible |
|---|---|
| (1). Report on Main task 1: | |
| a) Report on review of the MoEFCC OM dated 13 October 2021 and the State Action Plans prepared by any other State in India | 31 July 2022 |
| b) Draft structure/contents of the proposed State Action Plan for Gujarat for Clean Air, approach to be followed, and preparation of a work plan with activities and timelines | |
| c) Report on consultations with GPCB and their comments/ suggestions on the draft structure/contents and accordingly finalised structure/contents of the proposed State Action Plan for | 31 July 2022 |
| | 10 August 2022 |

Terms of Reference (ToRs) for developing State Action Plan for Gujarat on Clean Air as required under the National Clean Air Programme

| | |
|---|-------------------|
| Gujarat for Clean Air, approach to be followed, and preparation of a work plan with activities and timelines | |
| (2). Report on Main task 2: | |
| a) Draft report on information collected / compiled on the sources of air pollution in Gujarat (sector wise emission inventory), the ambient air quality trends of the last 10 years and data on major emission sources, emissions and pollution caused by the identified sources, status of pollution control etc. | 15 September 2022 |
| b) Draft assessment report on air pollution in Gujarat including sources of air pollution, emission levels, air quality, issues of concern needing actions etc. | 30 September 2022 |
| c) Report on consultations with GPCB, the State authorities and stakeholders through meetings, consultations and workshops, as appropriate. | 10 October 2022 |
| d) Final assessment report on air pollution in Gujarat including sources of air pollution, emission levels, air quality, issues of concern needing actions etc. | 17 October 2022 |
| (3). Report on Main task 3: | |
| a) Draft State Action Plan for Gujarat State on Clean Air in the given template as per MoEFCC OM dated 13 th October 2021. | 21 November 2022 |
| b) Report on consultations/meetings/workshops with GPCB, State authorities and stakeholders to seek comments/ views on the draft State Action Plan for Gujarat on Clean Air | 05 December 2022 |
| c) Final State Action Plan for Gujarat on Clean Air incorporating comments/suggestions/inputs from GPCB and other stakeholders. | 30 December 2022 |
| d) Report on training workshop for GPCB and other relevant State agencies and stakeholders on implementation of the prepared State Action Plan, monitoring and managing the implementation and updating of the plan as may be required | 20 January 2023 |
| Final Report on the assignment carried out and services provided | 15 February 2023 |

Note:

- The consultant is required to periodically make presentations before the GIZ team and the GIZ partners on the outputs and progress of work.
- All reports and presentations need to be submitted in hard (1 copy) as well as editable soft copies of the same along with all necessary reference data/information collected with the meta-data.

0.1 Period of assignment:

The period of assignment shall be from **11 July 2022** until **15 March 2023**.



Stakeholder Consultation Workshop on Preparation of State Action Plan for Gujarat on Clean Air under the National Clean Air Programme (NCAP)

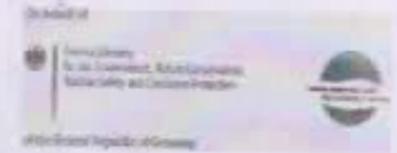
Annexure R-6

11 January 2023 (Wednesday) | 11:00 am to 4:00 pm | Venue: Auditorium, GPCB, Sector 10-A, Gandhinagar

Registration sheet

| S.No. | Name | Designation | Organisation | Contact no. | E-mail Id | Signature |
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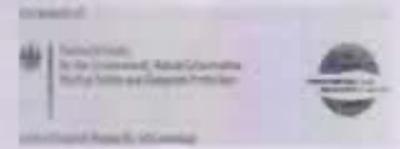
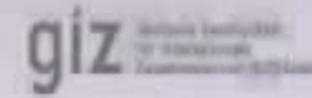
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| 9. | N. D. Buch. | JE | GSECL | 6357183267 | enviro.gsecl@ gebmail.com | |
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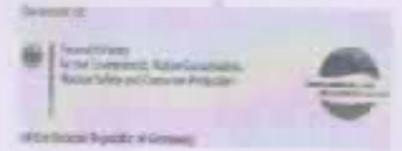
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| 13. | Hansa Dhasaniya | Under Secretary | Energy & Petro. chemicals Dept. | 6357149752 | us-coord-epd@gujarat.gov.in | |
| 14. | Amit Dhany | T.A. - Chem | IC-office | | | |
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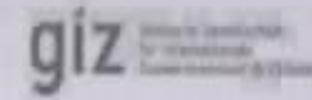
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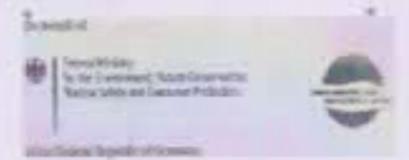
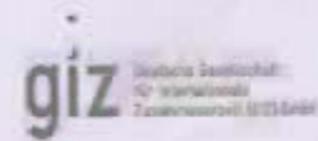
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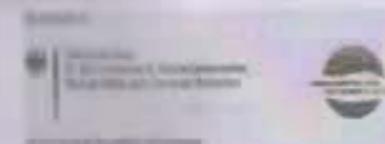
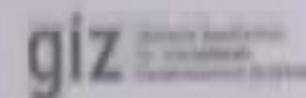
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| 28. | Renuka N. Shankh | DEC | GPCB | 98255 24249 | | |
| 29. | A. C. Patel | CE (WB) | R&BD | 98251 70656 | a_c_patel66@ yahoo.com | |
| 30. | U. R. Shan | AEF | GPCB Surat | | no-gpcb-surat@ gujarat.gov.in | |

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| 35. | Nischal Joshi | Director Environment | Forests & Environment Dept. | | | |

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