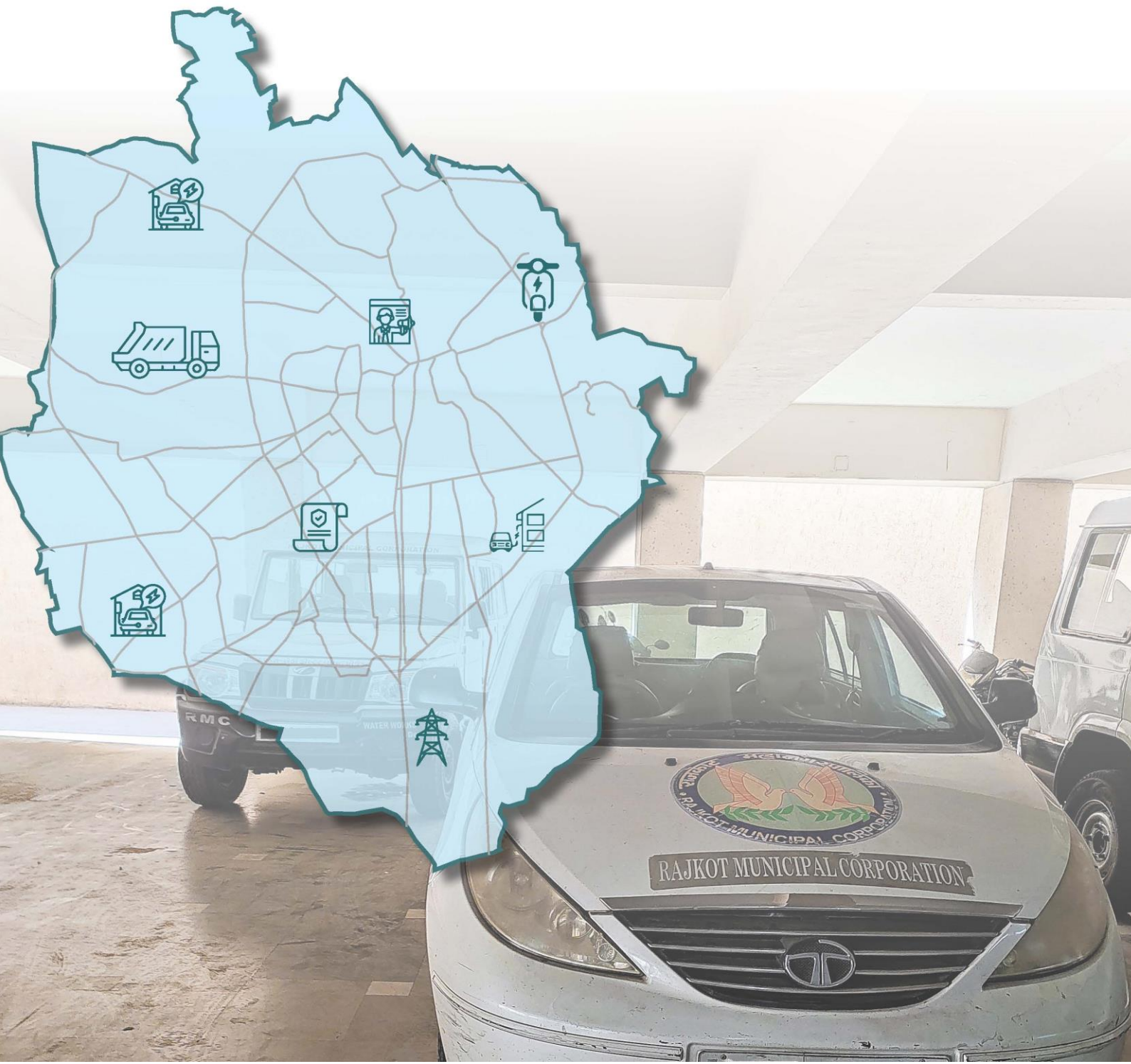


Financial strategy for Municipal fleet Electrification

Rajkot City



Acknowledgement: ICLEI South Asia would like to express its sincere gratitude to the officials from Rajkot Municipal Corporation (RMC), Rajkot Rajpath Limited (RRL), Rajkot Urban Development Authority (RUDA), Paschim Gujarat Vij Company Ltd. (PGVCL), RTO Rajkot, Builders Association and OEMs in Rajkot for their insights and guidance. The inputs from the Advisory Group members were crucial in finalizing the document.

This work builds upon and facilitate the ongoing active support of the CapaCITIES project to Rajkot Municipal Corporation and other government agencies on the electrification transport system. The synergy between the project assisted to achieve larger impact and outcome.

Author: Dr. Ravikant Joshi

Contributors: ICLEI South Asia – Ashish Rao Ghorpade, Vijay Saini, Nilesh Prajapati & Nandini Shandilya

Year of Publishing: 2022

Copyright © ICLEI South Asia (2022)

No part of this booklet may be disseminated or reproduced in any form (electronic or mechanical) without prior permission from or intimation to ICLEI South Asia. Permission and information may be sought at (iclei-southasia@iclei.org).

Contact

ICLEI - Local Governments for Sustainability, South Asia

C-3 Lower Ground Floor, Green Park Extension, New Delhi – 110016, India Tel: +91–11–4974 7200;

Email: iclei-southasia@iclei.org

Contents

1. Background	4
2. Objective of engagement.....	4
3. Finances of Rajkot Municipal Corporation	5
4. Future Vehicle Replacement Needs of Rajkot Municipal Corporation	7
4.1. Replacement of Vehicles owned by the RMC by electric vehicles	7
4.2. Replacement of Vehicles currently hired by the RMC by electric vehicles	12
4.3. Replacement of additional Vehicles required in future by the RMC by electric vehicles	12
5. Way Forward / Recommendations	12
6. Annexure	13
6.1. Annexure 1 – Information about age, type of vehicles owned by RMC	13
6.2. Annexure 2 – Price of Alternative E-Vehicles with Cost Escalation.....	25

1. Background

Local Governments in Indian Cities can lead by example and set incremental goals to electrify their municipal fleets. The Rajkot Municipal Corporation have a fleet that includes a mix of passengers as well as commercial vehicles. Many of the vehicles can be electrified in a phased manner. However, considering the technology risk and financial constraint, the transition should be planned in a phased manner to achieve long-term success as it relates to EV fleet transition. In the case of Rajkot, the ability to move forward with EV purchases so quickly could only happen with the support of a comprehensive financial plan. To be prepared for the large number of EVs phased into the city fleet, a financial plan would be essential.

In the same context, ICLEI South Asia embarked on an initiative to “Support Indian Cities in Taking Leadership on Electric Vehicles (EV)” to aid the cities to identify priority interventions and take necessary steps towards accelerated transition to EVs. This initiative included several interactions and discussions with the city stakeholders during visits to 10 project cities - Coimbatore, Gangtok, Kochi, Lakshadweep, Meerut, Nagpur, Panaji, Rajkot, Shimla and Surat. Consultations with the major stakeholders impacting EV transition in cities included advisory groups, industry experts including the advocacy group, charging infrastructure developers, vehicle technology/OEMs and financial institutions. As a part of the initiative, the ICLEI South Asia team visited Rajkot from 30 June to 1 July 2022, 14 September 2022 and then on 11 November to interact with the stakeholders and understand the existing EV transition situation in the city, challenges, opportunities and to suggest a way forward.

This document has been developed as a part of the above mentioned initiative and aims to provide a guideline to city administration to achieve environmental sustainability by accelerated electric vehicle integration and its infrastructure development with city’s existing vision. The document highlights the strategy of phased electrification of municipal fleet and support Rajkot to achieve greater electric vehicle adoption.

2. Objective of engagement

The specific objectives of the assignment would be to

- Validate and demonstrate the financial feasibility of the electrification of the current municipal fleet
- Suggest a staggered and year wise phase out plan for the existing municipal fleet
- Estimate year-wise financial plan to achieve fleet conversion for next 10 years
- Support cooperation among city governments to find out appropriate financial resources for fleet conversion.

The transition plan shall assist RMC to lead by example and set incremental goals to electrify their municipal fleets. The electrification shall include workplace charging at municipal buildings and there by encouraging employees to drive EVs. It will help RMC to reduce both fleet emissions and operating costs while improving service to the community by replacing their fleet vehicles with EVs. The step includes

1. Complete a Comprehensive Fleet Assessment:
 - a) Collect data on current fleet usage (e.g., types and number of vehicles, common routes, fleet purchase policy).
 - b) Complete a multi-year total cost of ownership analysis for each vehicle (vehicle cost, fuel, maintenance, insurance, etc).
 - c) Update fleet purchasing policy to prioritize electric vehicles (if a vehicle is required).
2. Complete a multi-year total cost of ownership analysis for each vehicle (vehicle cost, fuel, maintenance, insurance, etc)
3. **Establish City Fleet Electrification targets** and replace conventional gas-powered vehicles when suitable EV options are available with equivalent operational capability.
4. Apply for electric vehicle purchase incentives and grants:
5. EV Charging Infrastructure:

- a) Evaluate charging requirements: Level 1, Level 2, DC fast charge
- b) Coordinate EV charger deployments with other departments.
- c) Partner with electric utilities to install EV charging infrastructure

3. Finances of Rajkot Municipal Corporation

Finances of RMC indicate that before covid it was not in a financial distress but out of past three years only in one year prior to covid it has registered revenue surplus (see Table 1) but in covid 19 affected two years 2020-22 it has entered in to revenue deficit. (Operating ratio of 1.06 and 1.08).

Finances of RMC are dependent on revenue and capital grants from the Gol and GoG as its own source revenue on an average constitutes 65 % of revenue receipts and 37 % of the total receipts. Its revenue receipts on an average constitute 55% of total income thus it receives 53 % receipts in the form of capital grants and borrowings. Similarly, its revenue expenditure constitutes on an average 50 % of its total expenditure while capital expenditure constitutes 50 % of the total. The data in Table 1 shows volatility in revenue and capital receipts and expenditure.

The financial data analysis also indicates that own source tax and non-tax revenue has registered low annual growth rate this may be due to Covid 19 Pandemic. Even if it is so RMC need to work hard on its revenue front to achieve annual growth rate of at least 10 to 12 % that is in tune with national and state economy growth rate. Looking at the broad picture it seems that RMC will not have problem in funding replacement of its vehicles in future by electrical variants. Detailed analysis is as follows -

Table 1 - Financial Statement of RMC (Rs. in lacs)

Heads / Particulars	Actual 2019-20	Actual 2020-21	Actual 2021-22	Average Growth Rate
Opening Balance				
Revenue Receipts				
Municipal Own Tax Income	17054.51	15792.41	22250.35	
Water & Sewerage User Charge	18464.49	13098.14	17919.02	
Other User Charges / Rent /interest/ sale revenue etc.	4884.41	5393.40	8119.13	
Municipal Own Non-tax income	23348.90	18491.54	26038.15	
Municipal Own Source Total Income	40403.41	34283.95	48288.50	
Municipal OSR as % of Revenue Income	65	61	76	66
Municipal Own Revenue as % of Total Income	34	37	40	37
Revenue Grants				
Total Revenue Grants (14+17)	21691.10	21626.07	15499.68	
Total Revenue Grants as % of Revenue Receipts				
Total Revenue Receipts (11+18)	62094.51	55910.02	63788.18	
Total Revenue Receipts as % of Total Receipts	52	60	52	55

Total Capital Grants Received	45559.09	26303.04	57628.05	
Borrowings	1143.59	766.09	0.00	
Capital Receipts	57952.74	37203.64	57628.05	
Total Cap Receipts as % of Total Receipts	48	40	48	45
Total Municipal Receipts	120047.25	93113.66	121416.23	
Municipal Expenditure				
Salary Establishment Expenditure	29437.21	30170.68	31367.58	
Administrative Expenditure	1244.23	1182.13	1364.87	
Operation & Maintenance Expenditure	23050.86	22404.55	27281.26	
Loan interest, finance charges paid	71.40	67.66	22.63	
Program expenditure	1119.03	1286.88	932.61	
Other expenditure Revenue Grants, subsidies	2724.74	4376.85	7725.07	
Revenue Expenditure	57647.47	59488.75	68694.02	
Total Rev Expenditure as % of Total Expenditure	47	53	49	50
Capital Expenditure Total			72552.89	
Loan Repayment			41.38	
Capital Expenditure	64601.05	52513.56	72594.27	
Total Capital Expenditure as % of Total Expenditure	53	47	51	50
Total Municipal Expenditure (31+36)	122248.52	112002.31	141288.29	
Year End Closing Balance (3+25 – 37)				
Operating ratio	0.93	1.06	1.08	
Revenue Surplus/Deficit (19-31)	4447.04	-3578.73	-4905.84	
Capital Account surplus /Deficit (24 – 36)	-6648.31	-15309.92	-14966.22	
Fiscal Surplus/Deficit (25 – 37)	-2201.27	-18888.65	-19872.06	

4. Future Vehicle Replacement Needs of Rajkot Municipal Corporation

Future vehicle replacement needs have been worked out under three heads 1. Replacement of Vehicles owned by the RMC; 2. Replacement of Vehicles hired by the RMC and 3. Additional Vehicles needed in future by RMC in the light of population, area and service quality improvement.

4.1. Replacement of Vehicles owned by the RMC by electric vehicles

Future vehicle replacement needs of vehicles owned by RMC has been worked out by collecting data about number, type and age of vehicles it has at present. As RMC has policy of retiring vehicles at the age of 10 years (but in actual practice it is not observed strictly) while Motor Vehicles Act provides scrapping of vehicles on completion of 15 years of age so age profiling of RMC vehicles has been done on retiring vehicles after 10 and 15 years of operations (see Table 2 and 3).

It can be observed from the Table 2 (for details see Annexure 1) that in all RMC has 368 vehicles comprising – office vehicles (Cars, Jeeps, SUVs), Health and Sanitation related (open and close tippers, refuse compactor, 3 and 4 wheelers, JCB and Ambulance). As per RMC policy of scrapping vehicles after 10 years in all 128 vehicles (See Table 2) have become due for replacement but most of them even more than 15 years old have not been replaced by RMC.

If we take realistic and law mandated time limit of 15 years for scrapping/replacing the vehicles then there are 23 vehicles which were purchased during the period 1998 to 2007 and have become due for replacement in 2022 and another 21 vehicles will become due in current year 2023 (See Table 3). Also, another 8 vehicles will become due for replacement in the next year 2024. In all there are 52 vehicles which are due for replaced in the current and next year. Out of these 52 vehicles only 13 vehicles which belongs to Car/Jeep category can be replaced with e-vehicles (electrical alternative) immediately and rest of the vehicles which belong to Truck / Water Tanker/ Fire Tanker, Trailor, Crains, Mini Trucks etc of 16 ton and 8-ton capacity cannot be replaced at present as these categories do not have electric alternative but it is expected that year 2025-26 suitable electrical alternatives will become available. According all these vehicles replacement is assumed and suggested in the year 2025-26 in Table 2 and 3.

In the light of this first important recommendation is that RMC should not go for replacement of all the heavy vehicles with electric alternative till they become available in year 2025-26. If replacement of any such heavy vehicle is required due to breakdown or because of legal mandate then RMC should not purchase new conventional fuel-based vehicles rather for time being RMC should go for hiring of these vehicles for time being and as soon as electric alternative becomes available it should go for purchase or hiring of electric vehicles.

Funding requirement for replacement of vehicles with electric variant has been worked out by taking present price and increasing it by 5 % per annum. It is possible that in future prices of electric vehicles as they get mainstreamed may go down and may not increase at assumed 5% growth per annum; but at the same time, it is also a fact that though with mainstreaming of technological innovation price may not go down as manufacturer / market brings in higher version of technology to maintain growth in pricing. So, prices of electric vehicle of present make and capacity may go down as it gets mainstreamed but then higher capacity e-vehicles will also become available with slight increase in prices and RMC being public body will require and should go for e-vehicles with higher capacity and of higher version so 5 % annual growth assumed is justified.

It can be observed from the Table 2 and Table 3 that RMC will require funds for replacement of vehicles as follows –

	As per Table 2 (10-year age basis)		As per Table 2 (15-year age basis)	
	No. of Vehicles	Amount	No. of Vehicles	Amount
➤ 2022 - 23	53	Rs. 478 lacs	3	Rs. 50 lacs
➤ 2023 - 24	21	Rs. 366 lacs	5	Rs. 80 lacs

➤ 2024 – 25	41	Rs. 342 lacs	5	Rs. 82 lacs
➤ 2025 - 26	106	Rs. 5655 lacs	36	Rs. 2100 lacs
➤ 2026 - 27	56	Rs. 2111 lacs	19	Rs. 867 lacs
➤ 2027 – 28	9	Rs. 299 lacs	23	Rs. 744 lacs
➤ 2028 – 29	29	Rs. 1212 lacs	25	Rs. 717 lacs
➤ 2029 – 30	13	Rs. 298 lacs	48	Rs. 1977 lacs

It can be seen from the above summary of vehicle replacement needs and funds required for replacement by electrical alternative clearly shows that following legally mandated 15 years rule is beneficially as it is spreading replacement and funding needs evenly.

The funding requirement for replacement of existing vehicles by electric vehicles is very small/miniscule. Though it is recommended RMC should follow 15-year replacement rule but even if we compare maximum exceptional funding requirement of Rs. 5655 lacs (2025-26) to clear backlog with existing size (not the future) of revenue receipts of RMC then also it is less than 9 % thus there should not be any problem in future to fund replacement of vehicles owned by the RMC. But if we take 15 years base for replacement of vehicles then maximum amount required comes around Rs. 2100 lacs (2025-26) which is less than 3 % of present revenue receipts. If we take average funding requirement of Rs. 1300 lacs per annum during the period 2025-2030, the amount required come out just 2 %. Assuming RMC will achieve normal growth rate of 10% per annum for its revenue receipts, the funds required for replacement of existing vehicles by electric vehicles will be around 1 to 2 of future revenue receipts of RMC. Thus, RMC is financially capable of funding its future vehicle replacements through electrical alternatives.

Table 2 - Existing Fleet of Vehicles and its future phasing out (10 years life cycle) and requirement of funds for electric replacement (Rs. in lac)

Type of Vehicle	2022-23		2023-24		2024-25		2025-26		2026-27		2027-28		2028-29		2029-30		2030-31		2031-32		2032-33		Total
	Nos	Amt	Nos	Amt	Nos	Amt	Nos	Amt	Nos	Amt	Nos	Amt	Nos	Amt	Nos	Amt	Nos	Amt	Nos	Amt	Nos	Amt	
2 Wheelers			1	1.2	2	3.0	2	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
4-Wheeler	23	345	9	144	12	198	4	70	4	72	3	57	-	-	-	-	1	22	8	184	1	24	65
Ambulance	1	20	9	189	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	93	-	-	13
Crains	4	NA			19	NA	1		1	NA			8	NA	1	NA			1	NA			35
Dumper 16 tones	9	540	-	-	-	-	9	630	12	876	-	-	-	-	-	-	-	-	-	-	2	196	23
Fire Fighter 16 tones	14	840	-	-	4	252	14	1260	-	-	-	-	7	560	-	-	6	534	-	-	-	-	31
Form Nurser	1	NA																					1
Major Trucks	5	300	1	63	-	-	5	420	4	292	-	-	-	-	-	-	-	-	-	-	-	-	10
Mini Tipper – 8 tones	4	160			15	630	4	1400	5	362			10	540			7	350					42
Mini Trucks – 8 tones	10	400	3	126	5	210	10	1260			4	204			1	56			5	310			28
Road Rollers	5	NA																					5
Small Trucks - 2 tones	4	68			1	19	-	-	3						3	72							11
Toilet Seat Trailers		NA					13		16														29
Tractors	2	NA			2	NA			4	400			2	112					3	186			13
Trailers without Tractors	10						4	-					2						3				19
Water tankers - 16 tons	8	480					8	560	1	73													9
XUVs	3	45	2	32	7	122	3	53	2	36	2	38			8	170					2	50	29
Total	103		25		67		28		52		9	299	29	1212	13	298	14	906	23	773	5	270	368
Actual	53	478	21	366	41	342	106	5655	56	2111													

Table 3 - Existing Fleet of Vehicles and its future phasing out (15 years life cycle) and requirement of funds for electric replacement (Rs. in lac)

Type of Vehicle	2022-23		2023-24		2024-25		2025-26		2026-27		2027-28		Total	2028-29		2029-30		2030-31	
	Nos	Amt	Nos	Amt	Nos	Amt	Nos	Amt	Nos	Amt	Nos	Amt		Nos	Amt	Nos	Amt	Nos	Amt
2 Wheelers	-	-	-	-	-	-	-	-	-	-	-	-		1	2	2	5	2	6
4-Wheeler	2	30	4	64	5	82	2	35	2	36	8	152	23	9	180	12	252	4	92
Ambulance	1	20	-	-	-	-	-	-	-	-	-	-		9	243	-	-	-	-
Crains			1						2		1		5			19		1	
Dumper 16 tones			4		1		4+1	350	4	292			9						
Fire Fighter 16 tones	7	NA	3	NA	2	NA	7+3 +2	840			2	144	14			4	340	-	-
Form Nurser			1																
Major Trucks- 16 ton	3						3	210			2	144	5	1	80	-	-	-	-
Mini Tipper – 8 tones			2				2	92	2	98			4			15	840	1	60
Mini Trucks – 8 tones							3	148	6	294	1	51	9	3	162	5	280		
Road Rollers											5		5						
Small Trucks - 2 tones							2	40	1	21	1	22	4			1			
Toilet Seat Trailers																			13
Tractors									2	98			2			2	112		
Trailers without Tractors	8		2																4
Water Tankers -16 tons	2		3				2+3	350			3	231	8						
XUVs			1	16			2	35					3	2	40	7	148	3	66
Total	23		21		8		9		19	867	23	744		25	717	67		28	
Actual Purchase	3	50	5	80	5	82	36	2100					91			48	1977	10	224

Table 3 - Existing Fleet of Vehicles and its future phasing out (15 years life cycle) and requirement of funds for electric replacement (Rs. in lac)

Type of Vehicle	2031-32		2032-33		2033-34		2034-35		2035-36		2036-37		2037-38		Total
	Nos	Amt	Nos	Amt	Nos	Amt	Nos	Amt	Nos	Amt	Nos	Amt	Nos	Amt	
2 Wheelers															5
4-Wheeler	4	92	3	75					1		8		1		65
Ambulance											3				13
Crains	1				8		1				1				35
Dumper 16 tones	12	1116											2		23
Fire Fighter 16 tones					7				6						31
Form Nurser															1
Major Trucks 16 tones	4	372													10
Mini Tipper – 8 tones	5	310			10				7						42
Mini Trucks – 8 tones			4	260			1				5				28
Road Rollers															5
Small Trucks - 2 tones	3	78					3								11
Toilet Seat Trailers	16														29
Tractors	4				2						3				13
Trailers without Tractors					2						3				19
Water Tankers - 16 tons	1	93													9
XUVs	2	46	2	50			8						2		29
Total	52	2107	9	385	29		13		14		23		5		368

4.2. Replacement of Vehicles currently hired by the RMC by electric vehicles

RMC spends around Rs. 1300 lacs per year for staff salary, fuel and O&M of the vehicles owned by it. While it spends around Rs. lacs per year for the vehicles hired by it. Data received indicate that RMC is hiring 34 Sedan and 8 SUVs at present every day. It is necessary that these vehicles should also be replaced in future by electric vehicles to achieve twin objective of climate protection and cost economy. As suitable electric alternatives are available for Sedan Car and SUVs RMC can and should adopt practice of hiring only electric version of these cars from Vehicle Service Providers immediately.

4.3. Replacement of additional Vehicles required in future by the RMC by electric vehicles

Inquiry with the RMC indicated that RMC has not forecasted future requirement of vehicles in the light of increased population, area and service delivery improvements required. Consequently, it was not possible to work out this analysis for this report.

5. Way Forward / Recommendations

In the light of foregone analysis, it can be said that RMC has financial capacity to fund its future vehicles requirements in terms of conventional or electrical option. Following are the recommendations to achieve optimum electrification of vehicles owned or hired by the RMC –

1. Out of 368 vehicles at present owned by RMC only 91 vehicles will require replacement in next five years 2023 - 2027 as per present legal mandate of 15 years regarding age and scraping of the vehicles. RMC will be able to replace all these vehicles with electric variant and has necessary funds available for the same. So, RMC should go with 100 % replacement of 91 vehicles (retiring in coming five years) by electric version.
2. During coming five years if there arise a need of replacement of a vehicle for which electric alternative is not available then RMC should not purchase a conventional fossil fuel-based vehicle and should go for hiring of the vehicle to overcome vehicle shortage / need and should purchase vehicle when suitable electric alternative becomes available for purchase or rent.
3. As noted above only 91 vehicles out of 368 vehicles (only one third of total) will require replacement by the year 2027-28 and there are 277 vehicles which will be falling due for replacement as per present rule during the period 2028 to 2037 as these vehicles have been purchased during 2013 – 2022. Thus, even if RMC replaces these 91 vehicles by electric alternative it will be able to achieve only 33 % electrification of its vehicles.

If RMC wish to attend 100 % electrification of its vehicles in reasonable time (five years) then RMC need to make a real policy decision with regard to these 277 vehicles. If RMC decides to replace these vehicles with electric version as and when they become due for replacement in 2030 onwards then RMC will be able to achieve 100 % electrification of its vehicles only by 2037. If RMC wish to achieve 100 % electrification of vehicles (owned or hired by the RMC) then RMC should auction its 277 vehicles in coming three to five years and should replace them with electric version. In other words, RMC can consider adoption of a Vision / a Policy of electrification of its vehicles (owned or higher) by 2027-28 and work towards it systematically and in planning manner. Auctioning these 277 vehicles which were purchased during 2014-2022 by the year 2027 when they are in good condition is likely to achieve good price and which will help their replacement with electric version as per vision and time line.

4. RMC at present hires on an average 42 vehicles of Sedan and SUV category. Replacement of these vehicles by electric version is fully possible in short term of six months to one year and so it should carry out in next six months giving appropriate initiation to private sector to procure electric vehicles to supply it to RMC for operations. It is recommended that while hiring electric vehicles to replace existing conventional vehicles a proper analysis of hiring cost /rates should be done.

6. Annexure

6.1. Annexure 1 – Information about age, type of vehicles owned by RMC

Department	Vehicle No			Type of vehicle	Agency	Year	Fuel
F & E	GJ 3	GA	1604	Ambulance	FORCE TRAX CRUISER	2021	Diesel
F & E	GJ 3	GA	1830	Ambulance	FORCE TRAX CRUISER	2021	Diesel
F & E	GJ 3	GA	1718	Ambulance	TATA WINGER	2021	Diesel
F & E	GJ 3	AT	6080	Ambulance SUMO	TATA	2007	Diesel
F & E	GJ 3	G	923	Ambulance Traveler	FORCE MOTORS	2013	Diesel
F & E	GJ 3	G	924	Ambulance Traveler	FORCE MOTORS	2013	Diesel
F & E	GJ 3	G	925	Ambulance Traveler	FORCE MOTORS	2013	Diesel
F & E	GJ 3	G	926	Ambulance Traveler	FORCE MOTORS	2013	Diesel
F & E	GJ 3	G	927	Ambulance Traveler	FORCE MOTORS	2013	Diesel
F & E	GJ 3	G	1957	Ambulance Winger AC	TATA	2013	Diesel
F & E	GJ 3	G	1958	Ambulance Winger AC	TATA	2013	Diesel
F & E	GJ 3	G	1959	Ambulance Winger AC	TATA	2013	Diesel
F & E	GJ 3	G	1960	Ambulance Winger AC	TATA	2013	Diesel
ANCD	GJ 3	Y	3550	Animal trailer	Valambhiya body Builders, Rajkot	2005	-
ANCD	GJ 3	Y	3553	Animal trailer	Valambhiya body Builders, Rajkot	2005	-
SWM	GJ 3	GA	1707	Bolero B2 BVI	Mahindra & Mahindra	2021	Diesel
Water Works	GJ 3	GA	1833	Bolero B2 BVI	Mahindra & Mahindra	2021	Diesel
Estate	GJ 3	GA	1870	Bolero Camper 2WD PS BSVI Utility	Mahindra & Mahindra	2021	Diesel
Estate	GJ 3	GA	1960	Bolero Camper 2WD PS BSVI Utility	Mahindra & Mahindra	2021	Diesel
Estate	GJ 3	GA	1836	Bolero Camper 2WD PS BSVI Utility	Mahindra & Mahindra	2021	Diesel
Estate	GJ 3	GA	1552	Bolero Camper 2WD PS BSVI Utility	Mahindra & Mahindra	2021	Diesel
Estate	GJ 3	GA	1581	Bolero Camper 2WD PS BSVI Utility	Mahindra & Mahindra	2021	Diesel
Water Works	GJ 3	GA	1980	Bolero Camper 2WD PS BSVI Utility	Mahindra & Mahindra	2021	Diesel
Water Works	GJ 3	G	2018	Bolero Changers BSIII utility	M&M	2014	Diesel
Water Works	GJ 3	GA	58	Bolero Changers BSIII utility	M&M	2016	Diesel
Water Works	GJ 3	GA	483	Bolero Changers BSIII utility	M&M	2016	Diesel
Workshop	GJ 3	GA	211	Bolero Changers BSIII utility	M&M	2016	Diesel
Water Works	GJ 3	GA	1872	Bolero Changers BSVI utility	Mahindra & Mahindra	2020	Diesel

Department	Vehicle No			Type of vehicle	Agency	Year	Fuel
Estate	GJ 3	BA	1624	Bolero Jeep	M&M	2005	Diesel
ANCD	GJ 3	G	1613	Bolero Jeep	M&M	2008	Diesel
Health	GJ 3	G	1658	Bolero Jeep	M&M	2009	Diesel
SWM	GJ 3	G	1619	Bolero Jeep	M&M	2008	Diesel
SWM	GJ 3	G	1723	Bolero Jeep	M&M	2010	Diesel
Water Works	GJ 3	G	2635	Bolero Jeep	M&M	2014	Diesel
Estate	GJ 3	G	2017	Bolero Jeep 7seater	M&M	2014	Diesel
SWM	GJ 3	GA	287	Bolero Jeep 7seater BSIII	M&M	2015	Diesel
Estate	GJ 3	GA	308	Bolero Jeep 9seater	M&M	2015	Diesel
Vigilance	GJ 3	G	2026	Bolero Jeep 9seater	M&M	2014	Diesel
Vigilance	GJ 3	GA	193	Bolero Jeep 9seater	M&M	2015	Diesel
ANCD	GJ 3	G	2029	Bolero Jeep 9seater BSIII	M&M	2014	Diesel
ANCD	GJ 3	G	2031	Bolero Jeep 9seater BSIII	M&M	2014	Diesel
ANCD	GJ 3	GA	212	Bolero Jeep 9seater BSIII	M&M	2015	Diesel
Health	GJ 18	GA	754	Bolero single cab	M&M	2014	Diesel
SWM	GJ 3	Z	7481	Car Cass Van 10.50	EICHER	2008	Diesel
SWM	GJ 3	Z	7482	Car Cass Van 10.50	EICHER	2008	Diesel
Vigilance (Tech.)	GJ 3	G	2027	CRUZER	FORCE MOTORS	2014	Diesel
ERC	GJ 3	G	740	Dewatering pump 712 EX	TATA	2008	Diesel
ERC	GJ 3	G	741	Dewatering pump 712 EX	TATA	2008	Diesel
ERC	GJ 1	G	7017	Dewatering pump 712 EX	TATA	2008	Diesel
ERC	GJ 1	G	7016	Dewatering pump 712 EX	TATA	2009	Diesel
SWM	GJ 3	AT	691	Dumper placer tera-16	EICHER	2008	Diesel
SWM	GJ 3	G	794	Dumper Placer 10.80	EICHER	2011	Diesel
SWM	GJ 3	G	790	Dumper Placer 10.80	EICHER	2011	Diesel
SWM	GJ 3	G	791	Dumper Placer 10.80	EICHER	2011	Diesel
SWM	GJ 3	G	793	Dumper Placer 10.80	EICHER	2011	Diesel
ICDS	GJ 3	G	1976	EECO GREEN 5-SEATER	MARUTI SUZUKI LTD.	2013	CNG
ICDS	GJ 3	G	1977	EECO GREEN 5-SEATER	MARUTI SUZUKI LTD.	2013	CNG
ICDS	GJ 3	G	1978	EECO GREEN 5-SEATER	MARUTI SUZUKI LTD.	2013	CNG
ICDS	GJ 3	G	1979	EECO GREEN 5-SEATER	MARUTI SUZUKI LTD.	2013	CNG
ZOO	GJ 3	GA	309	EECO GREEN 5-SEATER	MARUTI SUZUKI LTD.	2014	CNG
SWM	GJ 3	GA	1820	EICHER PRO-2110 (CLOSED BODY VEHICLE)	Giriraj Tractors, Gondal	2022	Diesel

Department	Vehicle No			Type of vehicle	Agency	Year	Fuel
SWM	GJ 3	GA	1619	EICHER PRO-2110 (CLOSED BODY VEHICLE)	Giriraj Tractors, Gondal	2022	Diesel
F & E	GJ 3	G	5228	Fire Bullet	ENFIELD	2013	PETROL
F & E	GJ 18	G	7875	Fire Bullet	ENFIELD	2014	PETROL
F & E	GJ 18	G	7876	Fire Bullet	ENFIELD	2014	PETROL
F & E	GJ 3	Y	8093	Fire Fighter 1613	TATA	2002	Diesel
F & E	GJ 3	G	2590	Fire Fighter 1613	TATA	2014	Diesel
F & E	GJ 3	G	2591	Fire Fighter 1613	TATA	2014	Diesel
F & E	GJ 3	G	2592	Fire Fighter 1613	TATA	2014	Diesel
F & E	GJ 3	G	2593	Fire Fighter 1613	TATA	2014	Diesel
F & E	GJ 3	Y	9004	Fire Fighter 1616	Ashok Leyland	2002	Diesel
F & E	GJ 3	Y	9008	Fire Fighter 1616	Ashok Leyland	2002	Diesel
F & E	GJ 3	AT	1570	Fire Fighter Brausar 2518	TATA	2009	Diesel
F & E	GJ 3	AT	1573	Fire Fighter Brausar 2518	TATA	2009	Diesel
F & E	GJ 3	G	866	Fire Fighter Brausar 25180	Man Force	2012	Diesel
F & E	GJ 3	G	865	Fire Fighter MINI	M&M	2012	Diesel
F & E	GJ 3	AT	1363	Fire Fighter MINI 10.80	EICHER	2008	Diesel
F & E	GJ 3	AT	1364	Fire Fighter MINI 10.80	EICHER	2008	Diesel
F & E	GJ 3	AT	1366	Fire Fighter MINI 10.80	EICHER	2008	Diesel
F & E	GJ 3	Y	7093	Fire Fighter MINI 407	TATA	2002	Diesel
F & E	GJ 3	GA	1154	Fire Fighter MINI BOLERO	M&M	2018	Diesel
F & E	GJ 3	GA	1220	Fire Fighter MINI BOLERO	M&M	2018	Diesel
F & E	GJ 3	GA	1378	Fire Fighter MINI BOLERO	M&M	2018	Diesel
F & E	GJ 3	V	9758	Fire tanker	TATA	2000	Diesel
F & E	GJ 3	W	8752	Fire tanker 1613	TATA	2006	Diesel
F & E	GJ 3	W	8756	Fire tanker 1613	TATA	2006	Diesel
F & E	GJ 3	GA	1129	Fire tanker PRO 5016H 8000L	EICHER	2018	Diesel
F & E	GJ 3	GA	1209	Fire tanker PRO 5016H 8000L	EICHER	2018	Diesel
F & E	GJ 3	GA	1340	Fire tanker PRO 5016H 8000L	EICHER	2018	Diesel
F & E	GJ 3	GA	1468	Fire tanker PRO 5016H 8000L	EICHER	2018	Diesel
F & E	GJ 3	GA	1755	FIRE WATER TANKER - 10KL	TATA 1913	2020	Diesel
F & E	GJ 3	GA	1761	FIRE WATER TANKER - 10KL	TATA 1913	2020	Diesel
F & E	GJ 3	GA	1792	FIRE WATER TANKER - 10KL	TATA 1913	2020	Diesel
F & E	GJ 3	GA	1997	FIRE WATER TANKER - 10KL	TATA 1913	2020	Diesel

Department	Vehicle No			Type of vehicle	Agency	Year	Fuel
ERC	GJ 3	G	736	Form Nurser	Man Force	2008	Diesel
Estate	GJ 3	G	1757	Gama Jeep	FORCE MOTORS	2010	Diesel
SWM	GJ 3	GA	2	Garbage Compacter 1613	TATA	2016	Diesel
SWM	GJ 3	GA	35	Garbage Compacter 1613	TATA	2016	Diesel
SWM	GJ 3	GA	55	Garbage Compacter 1613	TATA	2016	Diesel
SWM	GJ 3	GA	57	Garbage Compacter 1613	TATA	2016	Diesel
SWM	GJ 3	GA	69	Garbage Compacter 1613	TATA	2016	Diesel
SWM	GJ 3	GA	108	Garbage Compacter 1613	TATA	2016	Diesel
SWM	GJ 3	GA	127	Garbage Compacter 1613	TATA	2016	Diesel
SWM	GJ 3	GA	195	Garbage Compacter 1613	TATA	2016	Diesel
SWM	GJ 3	GA	463	Garbage Compacter 1613	TATA	2016	Diesel
SWM	GJ 3	GA	470	Garbage Compacter 1613	TATA	2016	Diesel
SWM	GJ 3	GA	471	Garbage Compacter 1613	TATA	2016	Diesel
SWM	GJ 3	GA	474	Garbage Compacter 1613	TATA	2016	Diesel
Drainage	GJ 3	G	801	GENIO DC 2WD	M&M	2012	Diesel
CRICKET GROUND	--	--	--	GROUND ROLLER	HAKO ENGG., MUMBAI	2012	Diesel
ERC	GJ 3	G	804	Hook arm truck 2516	Ashok Leyland	2011	Diesel
ERC	GJ 3	G	805	Hook arm truck 2516	Ashok Leyland	2011	Diesel
Roshni	GJ 3	GA	368	Hydraulic ladder van 10.50	EICHER	2015	Diesel
Roshni	GJ 3	GA	466	Hydraulic ladder van 10.50	EICHER	2016	Diesel
Roshni	GJ 3	GA	1032	HYDRAULIC LADDER VEHICLE	EICHER 1055	2019	Diesel
F & E	GJ 3	G	818	Hydraulic Platform	VOLVO VEMA	2012	Diesel
F & E	GJ 3	GA	1558	HYDRAULIC PLATFORM	VOLVO + BRONTO SKY LIFT	2021	Diesel
RRL	GJ 3	G	1826	Indica vista car	TATA	2012	Diesel
Main branch	GJ 3	G	1947	Indica vista car	TATA	2013	Diesel
Main branch	GJ 3	G	1949	Indica vista car	TATA	2013	Diesel
Main branch	GJ 3	G	1950	Indica vista car	TATA	2013	Diesel
Main branch	GJ 3	G	1995	Indica vista car	TATA	2014	Diesel
Main branch	GJ 3	G	1996	Indica vista car	TATA	2014	Diesel
Main branch	GJ 3	G	1997	Indica vista car	TATA	2014	Diesel
Main branch	GJ 3	G	2023	Indica vista car	TATA	2014	Diesel
Main branch	GJ 3	GA	363	Indica vista car	TATA	2015	Diesel
Main branch	GJ 3	G	1617	Innova	TOYOTA	2008	Diesel

Department	Vehicle No			Type of vehicle	Agency	Year	Fuel
Main	GJ 3	GA	2020	INNOVA 2.4 VX, 7-SEATER	TOYOTA	2019	Diesel
Main	GJ 3	GA	4545	INNOVA 2.4 VX, 7-SEATER	TOYOTA	2019	Diesel
Main	GJ 3	GA	5555	INNOVA 2.4 VX, 7-SEATER	TOYOTA	2019	Diesel
Main branch	GJ 3	G	269	Innova 7-seater (2.5 G)	TOYOTA	2014	Diesel
Main branch	GJ 3	G	303	Innova 7-seater (2.5 G)	TOYOTA	2014	Diesel
Main branch	GJ 3	G	2020	Innova 7-seater (2.5 Z E3)	TOYOTA	2013	Diesel
Main branch	GJ 3	G	5555	Innova 7-seater (2.5 Z E3)	TOYOTA	2014	Diesel
Main branch	GJ 3	GA	1818	Innova 8-seater (2.5G E3)	TOYOTA	2016	Diesel
Main branch	GJ 3	GA	8888	Innova cresta	TOYOTA	2017	Diesel
Main branch	GJ 3	GA	7777	Innova cresta	TOYOTA	2017	Diesel
Main	GJ 3	GA	5050	INNOVA CRYSTA 2.4 VX, 7-SEATER	TOYOTA	2022	Diesel
Tax	GJ 3	DD	9851	Jeep	M&M	2002	Diesel
Roshni	GJ 3	GA	334	Jeep ladder van THAR DI 7str	M&M	2015	Diesel
Estate	GJ 3	GA	160	Law bed trailer	BALVIKRUPA INDUSTRIES	2015	-
Estate	GJ 3	GA	170	Law bed trailer	BALVIKRUPA INDUSTRIES	2015	-
Estate	GJ 3	GA	263	Law bed trailer	BALVIKRUPA INDUSTRIES	2015	-
Estate	GJ 3	GA	424	Law bed trailer	BALVIKRUPA INDUSTRIES	2015	-
Bandhkam	GJ 3	G	1239	LOADER EXCAVATOR 3DX	JCB	2014	Diesel
Bandhkam	GJ 3	G	1240	LOADER EXCAVATOR 3DX	JCB	2014	Diesel
Bandhkam	GJ 3	G	1241	LOADER EXCAVATOR 3DX	JCB	2014	Diesel
SWM	GJ 3	G	1229	LOADER EXCAVATOR 3DX	JCB	2014	Diesel
SWM	GJ 3	G	1230	LOADER EXCAVATOR 3DX	JCB	2014	Diesel
SWM	GJ 3	G	1231	LOADER EXCAVATOR 3DX	JCB	2014	Diesel
SWM	GJ 3	G	1232	LOADER EXCAVATOR 3DX	JCB	2014	Diesel
SWM	GJ 3	G	1245	LOADER EXCAVATOR 3DX	JCB	2014	Diesel
SWM	GJ 3	G	1246	LOADER EXCAVATOR 3DX	JCB	2014	Diesel
SWM	GJ 3	G	1247	LOADER EXCAVATOR 3DX	JCB	2014	Diesel
SWM	GJ 3	G	1248	LOADER EXCAVATOR 3DX	JCB	2014	Diesel
SWM	GJ 3	GA	1013	LOADER EXCAVATOR 770 EX	L&T CASE	2018	Diesel
SWM	GJ 3	GA	1090	LOADER EXCAVATOR 770 EX	L&T CASE	2018	Diesel

Department	Vehicle No			Type of vehicle	Agency	Year	Fuel
SWM	GJ 3	GA	1151	LOADER EXCAVATOR 770 EX	L&T CASE	2018	Diesel
SWM	GJ 3	GA	1166	LOADER EXCAVATOR 770 EX	L&T CASE	2018	Diesel
SWM	GJ 3	GA	1247	LOADER EXCAVATOR 770 EX	L&T CASE	2018	Diesel
SWM	GJ 3	GA	1319	LOADER EXCAVATOR 770 EX	L&T CASE	2018	Diesel
Main	GJ 3	GA	1930	MAHINDRA MARAZZO, M4+, 7-SEATER	Mahindra & Mahindra	2022	Diesel
SWM	GJ 3	G	988	manure lifting m/c XTRA PV	PIAGGIO	2014	Diesel
SWM	GJ 3	G	1000	manure lifting m/c XTRA PV	PIAGGIO	2014	Diesel
SWM	GJ 3	G	2501	manure lifting m/c XTRA PV	PIAGGIO	2014	Diesel
SWM	GJ 3	G	2502	manure lifting m/c XTRA PV	PIAGGIO	2014	Diesel
SWM	GJ 3	G	2503	manure lifting m/c XTRA PV	PIAGGIO	2014	Diesel
SWM	GJ 3	G	2504	manure lifting m/c XTRA PV	PIAGGIO	2014	Diesel
ICDS	GJ 18	G	3618	Maruti Van	MARUTI SUZUKI LTD.	2009	Petrol /CNG
ICDS	GJ 18	G	3619	Maruti Van	MARUTI SUZUKI LTD.	2009	Petrol /CNG
Traffic & Transport	GJ 3	GA	1038	Mini Crain XENON	TATA	2018	Diesel
Traffic & Transport	GJ 3	GA	1060	Mini Crain XENON	TATA	2018	Diesel
F & E	GJ 3	GA	1624	Mini Fire Fighter	TATA	2020	Diesel
F & E	GJ 3	GA	1645	Mini Fire Fighter	TATA	2020	Diesel
ERC	GJ 3	G	744	Mini pickup van 207	TATA	2009	Diesel
ERC	GJ 1	G	4794	Mini pickup van 207	TATA	2009	Diesel
ERC	GJ 3	G	745	Mini Rescue AVICO e COMET	Ashok Leyland	2008	Diesel
ERC	GJ 3	G	746	Mini Rescue AVICO e COMET	Ashok Leyland	2008	Diesel
SWM	GJ 3	GA	1235	MINI Tipper	TATA	2020	Diesel
SWM	GJ 3	GA	1261	MINI Tipper	TATA	2020	Diesel
SWM	GJ 3	GA	1267	MINI Tipper	TATA	2020	Diesel
SWM	GJ 3	GA	1310	MINI Tipper	TATA	2020	Diesel
SWM	GJ 3	GA	1381	MINI Tipper	TATA	2020	Diesel
SWM	GJ 3	GA	1409	MINI Tipper	TATA	2020	Diesel
SWM	GJ 3	GA	1475	MINI Tipper	TATA	2020	Diesel
SWM	GJ 3	G	92	MINI TIPPER- Dost	Ashok Leyland	2015	Diesel
SWM	GJ 3	GA	691	MINI TIPPER- Super ACE	TATA	2016	Diesel

Department	Vehicle No			Type of vehicle	Agency	Year	Fuel
SWM	GJ 3	GA	712	MINI TIPPER- Super ACE	TATA	2016	Diesel
SWM	GJ 3	GA	734	MINI TIPPER- Super ACE	TATA	2016	Diesel
SWM	GJ 3	GA	737	MINI TIPPER- Super ACE	TATA	2016	Diesel
SWM	GJ 3	GA	739	MINI TIPPER- Super ACE	TATA	2016	Diesel
SWM	GJ 3	G	974	MINI TIPPER- Trump 40	FORCE MOTORS	2014	Diesel
SWM	GJ 3	G	980	MINI TIPPER- Trump 40	FORCE MOTORS	2014	Diesel
SWM	GJ 3	G	981	MINI TIPPER- Trump 40	FORCE MOTORS	2014	Diesel
Estate	GJ 3	G	778	Mini Truck 709	TATA	2011	Diesel
Estate	GJ 3	G	783	Mini Truck 709	TATA	2012	Diesel
SWM	GJ 3	GA	850	Mobile Court 20.15	EICHER	2016	Diesel
Health	GJ 3	G	766	MOBILE DISPENSARY 10.75	EICHER	2011	Diesel
Health	GJ 3	G	767	MOBILE DISPENSARY 10.75	EICHER	2011	Diesel
SWM	GJ 3	GA	45	Mobile High Pressure Washing System 3000L PRO	EICHER	2016	Diesel
SWM	GJ 3	GA	51	Mobile High Pressure Washing System 3000L PRO	EICHER	2016	Diesel
SWM	GJ 3	GA	498	Mobile High Pressure Washing System 3000L PRO	EICHER	2016	Diesel
Library	GJ 3	G	780	Mobile Library Van 1075	EICHER	2011	Diesel
Library	GJ 3	G	781	Mobile Library Van 1075	EICHER	2011	Diesel
SWM	GJ 3	GA	194	Mobile Toilet 10-seater	Raj-shree & Company	2015	-
SWM	GJ 3	GA	204	Mobile Toilet 10-seater	Raj-shree & Company	2015	-
SWM	GJ 3	GA	302	Mobile Toilet 10-seater	Raj-shree & Company	2015	-
SWM	GJ 3	GA	41	Mobile Toilet 10-seater	Raj-shree & Company	2015	-
SWM	GJ 3	GA	78	Mobile Toilet 10-seater	Raj-shree & Company	2015	-
SWM	GJ 3	GA	219	Mobile Toilet 10-seater	Raj-shree & Company	2015	-
SWM	GJ 3	GA	488	Mobile Toilet 10-seater	Raj-shree & Company	2015	-
SWM	GJ 3	GA	4	Mobile Toilet 10-seater	Raj-shree & Company	2015	-
SWM	GJ 3	GA	80	Mobile Toilet 10-seater	Raj-shree & Company	2015	-
SWM	GJ 3	GA	427	Mobile Toilet 10-seater	Raj-shree & Company	2015	-
SWM	GJ 3	GA	439	Mobile Toilet 10-seater	Raj-shree & Company	2015	-
SWM	GJ 3	GA	70	Mobile Toilet 10-seater	Raj-shree & Company	2015	-
SWM	GJ 3	GA	197	Mobile Toilet 10-seater	Raj-shree & Company	2015	-
SWM	GJ 3	GA	641	Mobile Toilet 10-seater	Giriraj Tractors, Gondal	2016	-

Department	Vehicle No			Type of vehicle	Agency	Year	Fuel
SWM	GJ 3	GA	644	Mobile Toilet 10-seater	Giriraj Tractors, Gondal	2016	-
SWM	GJ 3	GA	765	Mobile Toilet 10-seater	Giriraj Tractors, Gondal	2016	-
SWM	GJ 3	GA	788	Mobile Toilet 10-seater	Giriraj Tractors, Gondal	2016	-
SWM	GJ 3	GA	789	Mobile Toilet 10-seater	Giriraj Tractors, Gondal	2016	-
SWM	GJ 3	GA	791	Mobile Toilet 10-seater	Giriraj Tractors, Gondal	2016	-
SWM	GJ 3	GA	852	Mobile Toilet 10-seater	Giriraj Tractors, Gondal	2016	-
SWM	GJ 3	GA	889	Mobile Toilet 10-seater	Giriraj Tractors, Gondal	2016	-
SWM	GJ 3	GA	638	Mobile Toilet 10-seater	Giriraj Tractors, Gondal	2016	-
SWM	GJ 3	GA	649	Mobile Toilet 10-seater	Giriraj Tractors, Gondal	2016	-
SWM	GJ 3	GA	758	Mobile Toilet 10-seater	Giriraj Tractors, Gondal	2016	-
SWM	GJ 3	GA	760	Mobile Toilet 10-seater	Giriraj Tractors, Gondal	2016	-
SWM	GJ 3	GA	786	Mobile Toilet 10-seater	Giriraj Tractors, Gondal	2016	-
SWM	GJ 3	GA	792	Mobile Toilet 10-seater	Giriraj Tractors, Gondal	2016	-
SWM	GJ 3	GA	858	Mobile Toilet 10-seater	Giriraj Tractors, Gondal	2016	-
SWM	GJ 3	GA	861	Mobile Toilet 10-seater	Giriraj Tractors, Gondal	2016	-
SWM	GJ 3	AV	8770	Mobile Washing Van ACE	TATA	2010	Diesel
SWM	GJ 3	AV	8771	Mobile Washing Van ACE	TATA	2010	Diesel
ERC	GJ 3	G	735	Multi-function rescue with crane	Man Force	2008	Diesel
Water Works	GJ 3	G	770	Pick up Van407	TATA	2011	Diesel
Water Works	GJ 3	G	799	Pick up Van407	TATA	2012	Diesel
SWM	GJ 3	G	2594	PORTER 600	PIAGGIO	2014	Diesel
SWM	GJ 3	GA	491	PORTER 600	PIAGGIO	2016	Diesel
SWM	GJ 3	GA	125	PORTER 600 mobile dispenser	PIAGGIO	2016	Diesel
SWM	GJ 3	GA	490	PORTER 600 mobile dispenser	PIAGGIO	2016	Diesel
Estate	GRP		6354	Recovery van 12.10	TATA	1988	Diesel
F & E	GJ 3	T	3074	RESCUE	Ashok Leyland	1991	Diesel
F & E	GJ 3	Y	8941	RESCUE	Ashok Leyland	2002	Diesel
Bandhkam	GJ 3	G	1216	Road roller 752 Vibratory	L & T – CASE	2012	Diesel
Bandhkam	GJ 3	G	1217	Road roller 752 Vibratory	L & T – CASE	2012	Diesel
Bandhkam	GJ 3	G	1218	Road roller Soil Compactor VM 115	JCB	2012	Diesel
Bandhkam	GJ 3	G	1219	Road roller Soil Compactor VMT 860	JCB	2012	Diesel
ERC	GJ 3	G	1720	Scorpio	M&M	2010	Diesel
ERC	GJ 3	G	1722	Scorpio	M&M	2010	Diesel

Department	Vehicle No			Type of vehicle	Agency	Year	Fuel
Main branch	GJ 3	G	1998	Scorpio	M&M	2013	Diesel
Main	GJ 3	GA	9945	SCORPIO S11 7CC	Mahindra & Mahindra	2022	Diesel
Vigilance	GJ 3	GA	183	Splendorspoke	HERO	2015	Petrol
Vigilance	GJ 3	GA	377	Splendorspoke	HERO	2015	Petrol
F & E	GJ 3	GA	1239	Subvahini	TATA-Winger	2019	Diesel
F & E	GJ 3	GA	1293	Subvahini	TATA-Winger	2019	Diesel
F & E	GJ 3	GA	1461	Subvahini	TATA-Winger	2019	Diesel
F & E	GJ 3	GA	1594	Subvahini	TATA SFC 510 TT BSVI	2021	Diesel
F & E	GJ 3	GA	1922	Subvahini	TATA SFC 510 TT BSVI	2021	Diesel
F & E	GJ 3	GA	1657	Subvahini	TATA SFC 510 TT BSVI	2021	Diesel
F & E	GJ 3	GA	1617	Subvahini	TATA SFC 510 TT BSVI	2021	Diesel
F & E	GJ 3	GA	1831	Subvahini	TATA SFC 510 TT BSVI	2021	Diesel
F & E	GJ 3	G	920	Subvahini 10.50	EICHER	2013	Diesel
F & E	GJ 3	G	921	Subvahini 10.50	EICHER	2013	Diesel
F & E	GJ 3	G	922	Subvahini 10.50	EICHER	2013	Diesel
F & E	GJ 3	AW	9563	Subvahini 10.75	EICHER	2010	Diesel
F & E	GJ 3	AW	9582	Subvahini 10.75	EICHER	2010	Diesel
F & E	GJ 3	GA	1064	Subvahini 407	TATA	2017	Diesel
F & E	GJ 3	GA	1087	Subvahini 407	TATA	2017	Diesel
F & E	GJ 3	GA	1253	Subvahini 407	TATA	2017	Diesel
F & E	GJ 3	GA	1355	Subvahini 407	TATA	2017	Diesel
F & E	GJ 3	AT	6426	Subvahini open 10.59	EICHER	2010	Diesel
SWM	GJ 3	G	905	Suction m/c (4000 L)909	TATA	2012	Diesel
SWM	GJ 3	G	906	Suction m/c (4000 L)909	TATA	2012	Diesel
SWM	GJ 3	G	903	Suction m/c (8000 L)1613	TATA	2013	Diesel
Vigilance	GJ 3	G	1773	SUMO	TATA	2011	Diesel
ANCD	GJ 3	G	1825	SUMO GOLD	TATA	2012	Diesel
Health	GJ 3	G	1843	SUMO GOLD	TATA	2012	Diesel
Health	GJ 3	G	2009	SUMO GOLD	TATA	2014	Diesel
Tax	GJ 3	G	407	SUMO GOLD	TATA	2012	Diesel
Tax	GJ 3	G	1846	SUMO GOLD	TATA	2012	Diesel
Water Works	GJ 3	G	1921	SUMO GOLD	TATA	2013	Diesel
Water Works	GJ 3	GA	843	SUMO GOLD	TATA	2016	Diesel

Department	Vehicle No			Type of vehicle	Agency	Year	Fuel
ZOO	GJ 3	G	2008	SUMO GOLD 9-seater	TATA	2014	Diesel
Vigilance (Tech.)	GJ 3	G	884	TEMPO TRAVELLAR	FORCE MOTORS	2013	Diesel
SWM	GJ 3	AT	2978	Tipper BIG 1616	TATA	2011	Diesel
SWM	GJ 3	AV	9372	Tipper small 407	TATA	2011	Diesel
SWM	GJ 3	G	959	TIPPER TERA 16	EICHER	2014	Diesel
SWM	GJ 3	G	960	TIPPER TERA 16	EICHER	2014	Diesel
SWM	GJ 3	G	961	TIPPER TERA 16	EICHER	2014	Diesel
SWM	GJ 3	G	967	TIPPER TERA 16	EICHER	2014	Diesel
SWM	GJ 3	G	968	TIPPER TERA 16	EICHER	2014	Diesel
SWM	GJ 3	G	969	TIPPER TERA 16	EICHER	2014	Diesel
SWM	GJ 3	G	962	TIPPER TERA 25	EICHER	2014	Diesel
SWM	GJ 3	G	963	TIPPER TERA 25	EICHER	2014	Diesel
SWM	GJ 3	G	964	TIPPER TERA 25	EICHER	2014	Diesel
SWM	GJ 3	G	965	TIPPER TERA 25	EICHER	2014	Diesel
SWM	GJ 3	G	966	TIPPER TERA 25	EICHER	2014	Diesel
SWM	GJ 3	G	970	TIPPER TERA 25	EICHER	2014	Diesel
SWM	GJ 3	GA	1025	Tipper Truck (Dumper)	TATA LPK 2518	2018	Diesel
SWM	GJ 3	GA	1048	Tipper Truck (Dumper)	TATA LPK 2518	2018	Diesel
SWM	GJ 3	GA	1068	Tipper Truck (Dumper)	TATA LPK 2518	2018	Diesel
SWM	GJ 3	GA	1173	Tipper Truck (Dumper)	TATA LPK 2518	2018	Diesel
SWM	GJ 3	GA	1226	Tipper Truck (Dumper)	TATA LPK 2518	2018	Diesel
SWM	GJ 3	GA	1257	Tipper Truck (Dumper)	TATA LPK 2518	2018	Diesel
SWM	GJ 3	GA	1273	Tipper Truck (Dumper)	TATA LPK 2518	2018	Diesel
SWM	GJ 3	GA	1316	Tipper Truck (Dumper)	TATA LPK 2518	2018	Diesel
SWM	GJ 3	GA	1419	Tipper Truck (Dumper)	TATA LPK 2518	2018	Diesel
SWM	GJ 3	GA	1431	Tipper Truck (Dumper)	TATA LPK 2518	2018	Diesel
CRICKET GROUND	--	--	--	TORO LAWN MOVER GREEN MASTER 1000	Irrigation Product International Pvt.Ltd., Chennai	2014	Petrol
CRICKET GROUND	--	--	--	TORO LAWN MOVER TIME CUTTER	Irrigation Product International Pvt.Ltd., Chennai	2014	Petrol
Estate	GJ 3	GA	56	Tractor 380	EICHER	2016	Diesel
SWM	GJ 3	GA	44	Tractor 380	EICHER	2016	Diesel

Department	Vehicle No			Type of vehicle	Agency	Year	Fuel
SWM	GJ 3	GA	52	Tractor 380	EICHER	2016	Diesel
SWM	GJ 3	GA	106	Tractor 380	EICHER	2016	Diesel
Estate	GJ 3	GA	1845	Tractor 380 HP	EICHER 380 R LINE USG	2021	Diesel
Estate	GJ 3	GA	1548	Tractor 380 HP	EICHER 380 R LINE USG	2021	Diesel
Estate	GJ 3	GA	1537	Tractor 380 HP	EICHER 380 R LINE USG	2021	Diesel
ZOO	GJ 3	GA	1379	TRACTOR 39 HP	JOHN DHEERE	2018	Diesel
ANCD	GJ 3	GA	1043	Tractor 50 HP	SONALIKA	2018	Diesel
ANCD	GJ 3	G	1210	Tractor 5660	EICHER	2011	Diesel
ANCD	GJ 3	G	1211	Tractor 5660	EICHER	2011	Diesel
ANCD	GJ 3	G	1243	Tractor 5660	EICHER	2014	Diesel
ANCD	GJ 3	G	1244	Tractor 5660	EICHER	2014	Diesel
ZOO	GJ 3	G	1204	Tractor mini-DI 2600	Captain	2008	Diesel
Estate	GJ 3	GA	1835	Tractor Trolley	BALVIKRUPA INDUSTRIES	2021	
Estate	GJ 3	GA	1741	Tractor Trolley	BALVIKRUPA INDUSTRIES	2021	
Estate	GJ 3	GA	1902	Tractor Trolley	BALVIKRUPA INDUSTRIES	2021	
F & E	GJ 3	Y	3901	Trailer boat	VADIA LMV	2003	Diesel
F & E	GJ 3	Y	3902	Trailer boat	VADIA LMV	2003	Diesel
ANCD	GJ 3	X	7405	Trailer	Ambica welding works	2000	-
Garden	GJ 3	X	7406	Trailer	Ambica welding works	2000	-
SWM	GJ 3	U	2704	Trailer	Ambica welding works	1997	-
Zoo	GJ 3	V	1615	Trailer	-----	1998	-
Vigilance	GJ 3	GA	286	Traveler	FORCE MOTORS	2015	Diesel
ZOO	GJ 3	G	1108	Trolley	Star Trailer, Rajkot	2008	-
Traffic & Transport	GJ 3	GA	1026	Trolley four wheel	Giriraj Tractors, Gondal	2018	-
Traffic & Transport	GJ 3	GA	1222	Trolley four wheel	Giriraj Tractors, Gondal	2018	-
Estate	GJ 3	GA	1196	Truck 1080	EICHER	2019	Diesel
Main branch	GJ 3	GA	848	TUV 300	M&M	2016	Diesel
Main	GJ 3	GA	1047	TUV 300 T6+	Mahindra & Mahindra	2019	Diesel
Main	GJ 3	GA	1141	TUV 300 T6+	Mahindra & Mahindra	2019	Diesel

Department	Vehicle No			Type of vehicle	Agency	Year	Fuel
Main	GJ 3	GA	1221	TUV 300 T6+	Mahindra & Mahindra	2019	Diesel
Main	GJ 3	GA	1426	TUV 300 T6+	Mahindra & Mahindra	2019	Diesel
Main	GJ 3	GA	1950	TUV 300 T6+	Mahindra & Mahindra	2019	Diesel
SWM	GJ 3	G	995	URINAL cum toilet VAN	FORCE MOTORS	2014	Diesel
SWM	GJ 3	G	996	URINAL cun toilet VAN	FORCE MOTORS	2014	Diesel
SWM	GJ 3	G	997	URINAL cun toilet VAN	FORCE MOTORS	2014	Diesel
SWM	GJ 3	G	998	URINAL cun toilet VAN	FORCE MOTORS	2014	Diesel
SWM	GJ 3	G	999	URINAL cun toilet VAN	FORCE MOTORS	2014	Diesel
Roshni	GJ 3	AV	9543	UTILITY (207 DI)	TATA	2011	Diesel
Roshni	GJ 3	G	806	UTILITY (207 DI)	TATA	2012	Diesel
Water Works	GJ 3	AV	9807	UTILITY (207 DI)	TATA	2011	Diesel
ZOO	GJ 3	GA	1130	VISITOR ZYPSY	MARUTI SUZUKI LTD.	2017	Diesel
ZOO	GJ 3	GA	1165	VISITOR ZYPSY	MARUTI SUZUKI LTD.	2017	Diesel
Bandhkam	GJ 3	G	874	Water tanker 20.16 (10000 Ltrs.)	EICHER	2012	Diesel
Bandhkam	GJ 3	G	875	Water tanker 20.16 (10000 Ltrs.)	EICHER	2012	Diesel
Bandhkam	GJ 3	G	876	Water tanker 20.16 (10000 Ltrs.)	EICHER	2012	Diesel
Water Works	GJ 3	W	9022	Water tanker 16.13 (9000 Ltrs.)	TATA	2006	Diesel
Water Works	GJ 3	W	9031	Water tanker 16.13 (9000 Ltrs.)	TATA	2006	Diesel
ERC	GJ 3	G	737	Water Tanker	Man Force	2008	Diesel
ERC	GJ 3	G	738	Water Tanker	Man Force	2008	Diesel
ERC	GJ 3	G	739	Water Tanker 1615	TATA	2008	Diesel
SWM	GJ 3	GA	508	Water Tanker 20.16	EICHER	2016	Diesel
Main branch	GJ 3	G	2012	XYLO	M&M	2012	Diesel
Vigilance	GJ 3	GA	1133	XYLO	M&M	2017	Diesel
Main branch	GJ 3	G	2223	XYLO 8 str	M&M	2014	Diesel

6.2. Annexure 2 – Price of Alternative E-Vehicles with Cost Escalation

Type of Vehicle	Electric variant to be replaced	Cost of Electric alternative 2022-23 Rs. in lacs	Per annum Price escalation assumed	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33
				Price Rs. in lakhs	Price Rs. in lakhs	Price Rs. in lakhs	Price Rs. in lakhs	Price Rs. in lakhs	Price Rs. in lakhs	Price Rs. in lakhs	Price Rs. in lakhs	Price Rs. in lakhs	Price Rs. in lakhs
Car	Tata Tigor- EV	12	5%	12.6	13.2	13.9	14.6	15.3	16.1	16.9	17.7	18.6	19.5
Scorpio, Jeep, Bolero, Sumo	Tata Nexon	15	5%	15.8	16.5	17.4	18.2	19.1	20.1	21.1	22.2	23.3	24.4
Refuse Compactor (10 Tons)	Alternative not yet available	40	5%	42.0	44.1	46.3	48.6	51.1	53.6	56.3	59.1	62.1	65.2
Covered Tipper- 16 tonnes	Prototypes under development. Launch expected in 2024. Replacement assumed in 2025	60	5%	63.0	66.2	69.5	72.9	76.6	80.4	84.4	88.6	93.1	97.7
Open Tipper/ mini trucks 8 tonnes	Alternative shall be available in 2025	40	5%	42.0	44.1	46.3	48.6	51.1	53.6	56.3	59.1	62.1	65.2
APE 3-Wheeler	Piaggio Ape	4	5%	4.2	4.4	4.6	4.9	5.1	5.4	5.6	5.9	6.2	6.5
APE 4-Wheeler	Tata ACE	9.5	5%	10.0	10.5	11.0	11.5	12.1	12.7	13.4	14.0	14.7	15.5
Jeep	Tata Nexon	15	5%	15.8	16.5	17.4	18.2	19.1	20.1	21.1	22.2	23.3	24.4
Crew Van	Tata open tipper	40	5%	42.0	44.1	46.3	48.6	51.1	53.6	56.3	59.1	62.1	65.2
JCB	Not available		5%										
Maruti van	Omni E- version may be launched in 2024	12	5%	12.6	13.2	13.9	14.6	15.3	16.1	16.9	17.7	18.6	19.5
Ambulance	Depends on base vehicle used	20	5%	21.0	22.1	23.2	24.3	25.5	26.8	28.1	29.5	31.0	32.6
Small Truck	2-3 tones Tata ULTRA T.7	17	5%	17.9	18.7	19.7	20.7	21.7	22.8	23.9	25.1	26.4	27.7
Tractor	Alternative shall be available since 2025	40	5%	42	44.1	46.31	48.62	51.05	53.6	56.28	59.1	62.1	65.2

