

Table 7 PCU of Kothariya Road to Nathdwara Road

	2-Wheeler	3-Wheeler	4-Wheeler	Magic/Taxi	Mini Bus	Bus	Truck	Push Carts	Bicycle	Other	
Monday	2466	227	471	5	0	4	19	0	0	0	
	2285	220	344	10	0	3	17	0	0	0	
Tuesday	2687	209	430	9	0	4	19	0	0	0	
	2200	229	317	6	0	3	20	0	0	0	
Wednesday	2514	248	469	7	0	2	24	0	0	0	
	2278	220	357	6	0	2	21	0	0	0	
Thursday	2494	239	491	5	0	3	8	0	1	0	
	2512	237	297	6	0	4	19	0	0	0	
Friday	2538	233	386	5	0	3	36	0	0	0	
	2386	198	337	8	0	4	22	0	0	0	
Saturday	1398	99	332	4	0	3	21	0	0	0	
	1362	146	241	5	0	4	21	0	0	0	
Sunday	869	32	344	4	0	1	13	0	0	0	
	786	25	273	5	0	2	16	0	0	0	
Total	28775	2562	5089	85	0	42	276	0	1	0	36830
ADT	4111	366	727	12	0	6	39	0	0	0	5261
PCU Factor	0.5	1	1	1	0	3	3	0	0.5	0	
Total PCU	2055	366	727	12	0	18	118	0	0	0	3297
Percentage	78.13%	6.96%	13.82%	0.23%	0%	0.11%	0.75%	0%	0.00%	0%	100.00%

SOURCE: TRAFFIC VOLUME SURVEY, 2021

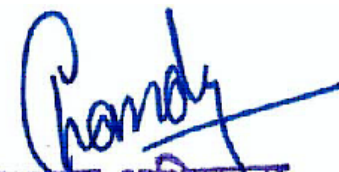
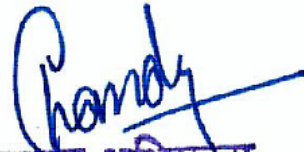

 सहायक अभियन्ता
 नगर पालिका नाथद्वारा (राज.)

Table 1 PCU of Nathdwara Road to Mavli Road

	2-Wheeler	3-Wheeler	4-Wheeler	Magic/Taxi	Mini Bus	Bus	Truck	Push Carts	Bicycle	Other	
Monday	1168	131	423	51	2	14	166	0	8	3	
	1175	118	322	69	6	18	188	0	1	6	
Tuesday	1197	107	395	53	1	12	146	0	4	2	
	1328	107	354	78	3	19	184	0	3	4	
Wednesday	1104	146	356	45	2	16	156	0	0	0	
	1217	117	357	82	1	20	183	0	1	0	
Thursday	1317	115	325	65	4	17	126	1	5	2	
	1340	121	271	81	6	20	185	0	2	1	
Friday	1197	107	395	53	1	12	146	0	4	2	
	1328	107	354	78	3	19	184	0	3	4	
Saturday	328	33	269	19	0	9	160	0	0	0	
	335	50	245	24	2	14	184	0	0	1	
Sunday	233	22	122	10	0	9	138	0	0	0	
	200	30	126	20	0	12	139	0	1	1	
Total	13467	1311	4314	728	31	211	2285	1	32	26	22406
ADT	1924	187	616	104	4	30	326	0	5	4	3201
PCU Factor	0.5	1	1	1	3	3	3	3	0.5	3	
Total PCU	962	187	616	104	13	90	979	0	2	11	2966
Percentage	60.10%	5.85%	19.25%	3.25%	0.14%	0.94%	10.20%	0.00%	0.14%	0.12%	


 सहायक अभियन्ता
 नगर पालिका नाथद्वारा (राज.)

	2-Wheeler	3-Wheeler	4-Wheeler	Magic/Taxi	Mini Bus	Bus	Truck	Push Carts	Bicycle	Other	
Monday	853	108	311	37	2	11	43	0	4	2	
	816	85	245	41	4	15	47	0	1	3	
Tuesday	884	79	307	41	1	9	52	0	3	1	
	914	74	244	55	3	15	51	0	1	0	
Wednesday	808	115	249	29	1	12	57	0	0	0	
	837	85	253	44	1	15	55	0	1	0	
Thursday	880	83	257	47	3	11	46	0	4	1	
	918	92	209	65	5	16	51	0	1	1	
Friday	766	75	257	40	1	8	43	0	3	1	
	853	75	243	50	2	16	52	0	2	2	
Saturday	231	26	184	15	0	8	66	0	0	0	
	208	26	176	16	1	10	63	0	0	0	
Sunday	136	15	90	6	0	9	49	0	0	0	
	127	22	84	10	0	8	56	0	0	0	
Total	9231	960	3109	496	24	163	731	0	20	11	14745
ADT	1319	137	444	71	3	23	104	0	3	2	2106
PCU Factor	0.5	1	1	1	3	3	3	3	0.5	3	
Total PCU	659	137	444	71	10	70	313	0	1	5	1711
Percentage	62.60%	6.51%	21.09%	3.36%	0.16%	1.11%	4.96%	0	0.14%	0.07%	


 सहायक अभियन्ता
 नगर पालिका नाथद्वारा (राज.)

Table 2 ADT and AADT of NH-8 to Nathuwas Link Road

ADT and AADT of NH-8 to Nathuwas Link Road				
	ADT	AADT	ADT	AADT
Vehicle	Mavli Road to Nathdwara Road		Nathuwas Circle to Nathdwara Bus Stand	
2-Wheeler	1924	2155	1319	1398
3-Wheeler	187	209	137	145
4-Wheeler	616	690	444	471
Magic/Taxi	104	116	71	75
Mini Bus	4	4	3	3
Bus	30	34	23	24
Truck	326	365	104	110
Push Carts	0	0	0	0
Bicycle	5	6	3	3
Other	4	4	2	2
Total	3200	1495	2106	2232

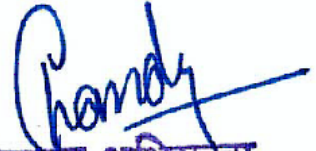
Table 3 Traffic Forecast -1 of Nathdwara to Mavli Road

Vehicle	2021	2025	2030	2035	2040	2045
Total Traffic Volume	22406	27235	34759	44362	56619	72262
Total ADT	3201	3891	4966	6338	8089	10324
Total PCU	2966	3605	4601	5872	7495	9566
Capacity for Carriageway (PCU/Day)	11800	11800	11800	11800	11800	11800
V/C Ratio	0.25	0.31	0.39	0.50	0.64	0.81
LOS	B	B	B	C	C	E
Vehicle	2021	2025	2030	2035	2040	2045
Total Traffic Volume	14745	17923	22874	29194	37260	47554
Total ADT	2106	2560	3267	4170	5322	6792
Total PCU	1711	2080	2654	3388	4324	5518
Capacity for Carriageway (PCU/Day)	11800	11800	11800	11800	11800	11800
V/C Ratio	0.15	0.18	0.22	0.29	0.37	0.47
LOS	A	A	B	B	B	C

Table 4 Traffic Forecast-2 of Nathuwas Circle to Nathdwara Bus Stand

Vehicle	2021	2025	2030	2035	2040	2045
Total Traffic Volume	14745	17923	22874	29194	37260	47554
Total ADT	2106	2560	3267	4170	5322	6792
Total PCU	1711	2080	2654	3388	4324	5518
Capacity for Carriageway (PCU/Day)	11800	11800	11800	11800	11800	11800
V/C Ratio	0.15	0.18	0.22	0.29	0.37	0.47
LOS	A	A	B	B	B	C

Traffic Forecast for Proposed Bypass Road


 सहायक अभियन्ता
 नगर पालिका नाथद्वारा (राज.)

Vehicle	2021	2025	2030	2035	2040	2045
2-Wheeler	24241	29465	37605	47995	61255	78178
3-Wheeler	2360	2868	3661	4672	5963	7611
4-Wheeler	7765	9439	12046	15375	19622	25044
Magic/Taxi	1310	1593	2033	2595	3311	4226
Mini Bus	56	68	87	110	141	180
Bus	380	462	589	752	960	1225
Truck	4113	4999	6381	8143	10393	13265
Push Carts	2	2	3	4	5	6
Bicycle	58	70	89	114	146	186
Other	47	57	73	93	118	151
Total Traffic in a week	40331	49022	62566	79852	101914	130071
Total ADT	5762	7003	8938	11407	14559	18582
Total PCU	5339	6490	8283	10571	13491	17219
Capacity for Carriageway (PCU/Day)	40000	40000	40000	40000	40000	40000
V/C Ratio	0.13	0.16	0.21	0.26	0.34	0.43

Table 8 PCU of Kothariya Bus Stand to Nathdwara Bus Stand

	2-Wheeler	3-Wheeler	4-Wheeler	Magic/Taxi	Mini Bus	Bus	Truck	Push Carts	Bicycle	Other	
Monday	1949	172	336	3	0	4	8	0	0	0	
	1653	149	287	7	0	3	6	0	0	0	
Tuesday	1880	147	305	4	0	2	9	0	0	0	
	1502	156	190	2	0	1	8	0	0	0	
Wednesday	1770	175	310	7	0	2	11	0	0	0	
	1611	156	244	6	0	2	9	0	0	0	
Thursday	1919	178	373	5	0	3	3	0	1	0	
	1925	208	228	4	0	2	8	0	0	0	
Friday	1980	192	315	4	0	3	16	0	0	0	
	1866	152	273	6	0	4	10	0	0	0	
Saturday	1196	114	189	4	0	3	7	0	0	0	
	1081	92	163	6	0	4	4	0	0	0	
Sunday	869	32	344	4	0	1	13	0	0	0	
	786	25	273	5	0	2	16	0	0	0	
Total	21987	1948	3830	67	0	36	128	0	1	0	27997
ADT	3141	278	547	10	0	5	18	0	0	0	4000
PCU Factor	0.5	1	1	1	-	3	3	3	0.5	-	
Total PCU	1571	278	547	10	0	15	55	0	0	0	2476
Percentage	79%	6.96%	13.68%	0.24%	0%	0.13%	0.46%	0.00%	0.00%	0.00%	100%

SOURCE: TRAFFIC VOLUME SURVEY, 2021

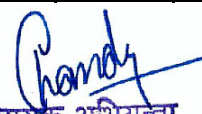

 सहायक अभियन्ता
 नगर पालिका नाथद्वारा (राज.)

Table 9 Seasonal Variation Factor of NH-8 to Kothariya Link Road

S.NO.	LOCATION	PETROL VEHICLE	DIESEL VEHICLES
1	Kothariya Road to Nathdwara Road	0.88	1.12
2	Kothariya Bus Stand to Nathdwara Bus Stand	0.92	1.06

SOURCE: TRAFFIC SURVEY, 2021

Table 10 ADT and AADT of NH-8 to Kothariya Link Road

ADT and AADT of NH-8 to Kothariya Link Road				
	ADT	AADT	ADT	AADT
Vehicle	Kothariya Road to Nathdwara Road	Kothariya Road to Nathdwara Road	Kothariya Bus Stand to Nathdwara Bus Stand	Kothariya Bus Stand to Nathdwara Bus Stand
2-Wheeler	4111	4604	3142	3331
3-Wheeler	366	410	278	295
4-Wheeler	727	814	547	580
Magic/Taxi	12	13	10	11
Mini Bus	0	0	0	0
Bus	6	7	5	5
Truck	39	44	18	19
Push Carts	0	0	0	0
Bicycle	0	0	0	0
Other	0	0	0	0
Total	5261	5892	4000	4240

SOURCE: TRAFFIC VOLUME SURVEY, 2021

Chand
 सहायक अभियन्ता
 नगर पालिका नाथद्वारा (राज.)

Table 11 Traffic Composition from OD Survey

Vehicle Type	Point 1	Point 2	Average
2-Wheeler	38.10%	37.14%	37.62%
3-Wheeler	13.33%	13.33%	13.33%
4-Wheeler	34.29%	36.19%	35.24%
Push Cart	2.86%	2.86%	2.86%
Truck	11.43%	10.48%	10.95%

*Point 1 – Nathdwara to Kothariya Road Point 2 – Kothariya Bus Stand to Nathdwara Bus Stand SOURCE: TRAFFIC SURVEY, 2021

Table 12 Traffic Forecast -1 Kothariya Road to Nathdwara Road

Vehicle per Day	2021	2025	2030	2035	2040	2045
Total Traffic Volume	36830	44767	57135	72921	93068	118780
Total ADT	5261	6395	8162	10417	13295	16969
Total PCU	3297	4008	5115	6528	8331	10633
Capacity for Carriageway (PCU/Day)	14400	14400	14400	14400	14400	14400
V/C Ratio	0.23	0.28	0.36	0.45	0.58	0.74
LOS	B	B	B	C	C	D

SOURCE: TRAFFIC VOLUME SURVEY, 2021

Table 13 Traffic Forecast -2 Kothariya Bus Stand to Nathdwara Bus Stand

Vehicle	2021	2025	2030	2035	2040	2045
Total Traffic Volume	27997	34030	43432	55432	70747	90293
Total ADT	4000	4861	6205	7919	10107	12899
Total PCU	2476	3010	3841	4902	6257	7985
Capacity for Carriageway (PCU/Day)	11800	11800	11800	11800	11800	11800
V/C Ratio	0.21	0.26	0.33	0.42	0.53	0.68
LOS	B	B	B	C	C	D

SOURCE: TRAFFIC VOLUME SURVEY, 2021


 सहायक अभियन्ता
 नगर पालिका नाथद्वारा (राज.)

Table 14 Traffic Forecast for Proposed Bypass Road

Vehicle	2021	2025	2030	2035	2040	2045
2-Wheeler	6822	8292	10583	13507	17238	22001
3-Wheeler	589	716	914	1166	1488	1899
4-Wheeler	1292	1570	2004	2558	3265	4166
Magic/Taxi	18	22	28	36	46	59
Mini Bus	0	0	0	0	0	0
Bus	10	12	16	20	25	32
Truck	54	66	84	107	136	174
Push Carts	0	0	0	0	0	0
Bicycle	1	1	1	1	1	2
Other	0	0	0	0	0	0
Total ADT	8785	10679	13629	17394	22200	28333
Total PCU	5502	6688	8535	10894	13903	17744
Capacity for Carriageway (PCU/Day)	40000	40000	40000	40000	40000	40000
V/C Ratio	0.14	0.17	0.21	0.27	0.35	0.44


 सहायक अभियन्ता
 नगर पालिका नाथद्वारा (राज.)