

(Di -Df) < 0.025 Then Formulae for Calculation of Deflection is 2* (initial - final)

Di = Intermediate Reading

Df = Final Reading

(Di -Df) > 0.025 Then Formulae For Deflection Is 2* ((Initial - final) + 0.582 * (Intermediate - Final))

Temperature Correction Factor = 0.01 * (Pavement Temperature observed - Pavement Temperature Standard)

Corrected Deflection = (Deflection - Temperature Correction On Factor) * Seasonal Correction based on moisture correction , PI value , Annual Rainfall < or > 1300 mm

Pavement Temperature Standard = 35⁰ C

Characteristics Deflection Dc =X + 2*Sigma

For NH , SH

Characteristics Deflection Dc =X + Sigma

For All Other Road

Average Deflection = Summation Of all Deflection Values

Sigma = $\text{SQRT}((X - X_1)^2 / (N-1))$

True Pavement Deflection = X_T

X_T = X_A + 2.9 Y

Y = 2* (Intermediat - Final)

XA = Apparent Pavement Deflection

Initial Reading = At stand

Intermediate Reading = 2.7 M from the starting point

Final Reading = At a 11.7 M from the Starting Point Means 9 M from the Intermediate reading Point

Cumulative Number of Repitataion of axle

$$N = \frac{365 * A * D * ((1+r)^n - 1) * F}{r}$$

N= Cumulative Number of std Axle To be Catered for in the design in terms of msa
 A = Initial Traffic in the year of completion of construction in terms of the of **CVD**
 D= Lane Distribution Factor
 F = Vehical Damage Factor
 n = Design Life In years
 r = Annual Growth rate of commercial vehicles 7.5% **r = 0.075**

$$A = P(1 + r)^n$$

P= Number of comercial vehical as per last Count
 X= Number of years between the last and the year of the completion of construction

Permissible variation in CBR value

CBR (Percent)	Maximum Variation in CBR Value	
5	1	-1
5 To 10	2	-2
11 To 30	3	-3
31 and Above	5	-5

D15 of Drainage Layer > 5 High Permeabilty Drainage Layer
 D15 of Drainage Layer

F= Vehical Damage Factor

CVD	Rolling /	Hilly
0-150	1.5	0.5
150-1500	3.5	1.5
> 1500	4.5	2.5

Two lane Carriageway - 75% of total Traffic Volume of Both Direction

Four lane Carriageway - 40% of total Traffic Volume of Both Direction
 Single / Dual

Dual Carriage Roads = 75% of total Traffic Volume of Each Direction

Distribution Factor = Redused By 20% for each additional Lane

For Dual Three Lane Carriageway Distribution = 60%

Preparation of Detailed Project Report for Nanded Roads under JNNURM
BENKELMAN BEAM DEFLECTION SURVEY ANALYSIS
Code Ref: IRC-81 (1997)

Direction	Test Location		Pavement Condition at			Dial gauge readings (mm)				Deflection (mm)	Pavement temperature (deg. Celcius)	Pavement temperature (deg. Celcius) & time of observation	Ambient Temperature (deg. Celcius)	Temperature Difference	Temperature Correction Factor	Seasonal Correction Factor	Corrected Deflection (mm)	Average Deflection (for each road section)	Std. Deviation	Characteristic Deflection-Dc (mm)	
	Chainage (km)	Offset from pavement edge (m)	Surfacing (Good/Fair/Poor/Very Poor)	Crack Type	Rut Depth (mm)	Initial	Intermediate	Final	(Di-Df)												
Location :	Road 1	Railway Station To Wazirabad Police Station (2 Lane														From Fig.4					
	Moisture Content															Page 11					
	Railway Station Chowk	0.9	Good			1.00	0.79	0.75	0.04	0.505	35	43	34	8	0.08	1.1	0.47				
	Shivkrupa Bhojnalay	0.9	Good			5.00	4.82	4.79	0.03	0.423	35	43	34	8	0.08	1.1	0.38				
	Hotel Kureshia	0.9	Good			3.00	2.7	2.66	0.04	0.685	35	43	34	8	0.08	1.1	0.67				
	Radha Krishna Market	0.9	Good			7.00	6.68	6.64	0.04	0.725	35	43	34	8	0.08	1.1	0.71				
	Kushnavilas Restaurent	0.9	Good			4.00	3.79	3.77	0.02	0.460	35	43	34	8	0.08	1.1	0.42				
	Zilha Parishad	0.9	Good			6.00	5.80	5.78	0.02	0.440	35	43	34	8	0.08	1.1	0.40				
	Session Court	0.9	Good			2.00	1.72	1.68	0.04	0.645	35	43	34	8	0.08	1.1	0.62				
	Post Office	0.9	Good			3.00	2.64	2.61	0.03	0.783	35	43	34	8	0.08	1.1	0.77				
	Guru Executive restaurent	0.9	Good			8.00	7.83	7.79	0.04	0.425	35	43	34	8	0.08	1.1	0.38				
	Mechantile Co. Bank	0.9	Good			6.00	5.81	5.78	0.03	0.443	35	43	34	8	0.08	1.1	0.40				
	Mahangar palika office	0.9	Good			6.00	5.66	5.60	0.06	0.807	35	43	34	8	0.08	1.1	0.80				
	B.S.N.L Office	0.9	Good			4.00	3.72	3.69	0.03	0.623	35	43	34	8	0.08	1.1	0.60				
	Jilha Dikshari Office	0.9	Good			4.00	3.81	3.78	0.03	0.443	35	43	34	8	0.08	1.1	0.40				
	Reliance Web World	0.9	Good			6.00	5.78	5.75	0.03	0.503	35	43	34	8	0.08	1.1	0.47				
	Red Rose Tailor	0.9	Good			5.00	4.81	4.78	0.03	0.443	35	43	34	8	0.08	1.1	0.40	0.52	0.15	0.83	
	Waqirabad Police Station	0.9	Good																		
Location :	Road 2	Wazirabad Pollice Station To Gurudwara Gate No. 1 (2Lane																			
	Waqirabad Police Station	0.9	Good			4.00	3.79	3.75	0.04	0.505	35	42	34	7	0.07	1.12	0.49				
	Ganesh Ceramic Tiles	0.9	Good			2.00	1.75	1.72	0.03	0.563	35	42	34	7	0.07	1.12	0.55				
	Khalsa Chowk	0.9	Good			1.00	0.74	0.71	0.03	0.583	35	42	34	7	0.07	1.12	0.58				
	Grahak Seva Kendra	0.9	fair			3.00	2.60	2.53	0.07	0.948	35	42	34	7	0.07	1.12	0.98				
	Gurudwra Gate NO. 1	0.9	Good			3.00	2.68	2.64	0.04	0.725	35	42	34	7	0.07	1.12	0.73	0.67	0.20	1.06	
Location :	Road 4	Keli Market To Berki Chowk (1 Lane)																			
	S.S Fruit Com	0.6	good			4.00	3.74	3.69	0.05	0.626	35	36	31	1	0.01	1.2	0.74				
	Famous Fruit Com	0.6	Fair			7.00	6.69	6.65	0.04	0.705	35	36	31	1	0.01	1.2	0.83				
	Suresh Shoes Mart	0.6	Good			2.00	1.39	1.32	0.07	1.368	35	36	31	1	0.01	1.2	1.63				
	Sham Shoes	0.6	Fair			1.00	0.61	0.58	0.03	0.843	35	36	31	1	0.01	1.2	1.00				
	Burki Chowk	0.6	Poor			3.00	2.40	2.33	0.07	1.348	35	36	31	1	0.01	1.2	1.61	1.16	0.43	2.02	
Location :	Road 5	Berki Chowk To Darbar Masjid Sonanaghat (1 lane)																			
	Mrathwada Scales	0.6	Fair			3.00	2.59	2.56	0.03	0.883	35	36	30	1	0.01	1.2	1.05				
	Dinanath & Sons Company	0.6	Fair			5.00	4.62	4.59	0.03	0.823	35	36	30	1	0.01	1.2	0.98	1.01	0.05	1.11	
	Road 7	S.T Workshop Road To Mutho Chowk (4Lane)																			
	Raj Corner	1.5	Fair			3.00	2.50	2.42	0.08	1.169	35	37	31	2	0.02	1.08	1.24				
	Purnima Hotel	1.5	Fair			5.00	4.30	4.24	0.06	1.527	35	37	31	2	0.02	1.08	1.63				
	Gjanan Colour Home	1.5	Good			7.00	6.62	6.52	0.10	0.972	35	37	31	2	0.02	1.08	1.03				
	Ptbhandare Vibhag	1.5	Good			6.00	5.95	5.93	0.02	0.140	35	37	31	2	0.02	1.08	0.13				
	Maharashtra Jivan Pradhikar	1.5	Good			8.00	7.70	7.64	0.06	0.727	35	37	31	2	0.02	1.08	0.76				
	Sinchan Bhawan	1.5	Good			3.00	2.81	2.76	0.05	0.486	35	37	31	2	0.02	1.08	0.50				
	Mahalakshmi Oil Depot	1.5	Good			1.00	0.78	0.71	0.07	0.588	35	37	31	2	0.02	1.08	0.61				
	Santosh Lodge	1.5	Fair			5.00	4.55	4.43	0.12	1.154	35	37	31	2	0.02	1.08	1.22				
	Exide Battery	1.5	Good			3.00	2.79	2.73	0.06	0.547	35	37	31	2	0.02	1.08	0.57				
	Bank Of Maharashtra	1.5	Good			3.00	2.82	2.78	0.04	0.445	35	37	31	2	0.02	1.08	0.46				
	Balaji Junction	1.5	Good			3.00	2.80	2.76	0.04	0.485	35	37	31	2	0.02	1.08	0.50				
	Sainath Jewellers	1.5	Good			5.00	4.79	4.73	0.06	0.547	35	37	31	2	0.02	1.08	0.57				
	Sonavane Medico	1.5	Good			7.00	6.84	6.77	0.07	0.468	35	37	31	2	0.02	1.08	0.48				
	Ganga Textiles	1.5	Good			1.00	0.81	0.75	0.06	0.507	35	37	31	2	0.02	1.08	0.53				
	Rohit Lodging	1.5	Good			4.00	3.77	3.71	0.06	0.587	35	37	31	2	0.02	1.08	0.61				
	Munde Hospital	1.5	Good			2.00	1.71	1.68	0.03	0.643	35	37	31	2	0.02	1.08	0.67				
	Nanded Merchant Bank	1.5	Good			6.00	5.78	5.74	0.04	0.525	35	37	31	2	0.02	1.08	0.55				
	Chowgule Coaching Classes	1.5	Good			3.00	2.71	2.64	0.07	0.728	35	37	31	2	0.02	1.08	0.76				

Direction	Test Location		Pavement Condition at			Dial gauge readings (mm)				Deflection (mm)	Pavement temperature (deg. Celcius)	Pavement temperature (deg. Celcius) & time of observation	Ambient Temperature (deg. Celcius)	Temperature Difference	Temperature Correction Factor	Seasonal Correction Factor	Corrected Deflection (mm)	Average Deflection (for each road section)	Std. Deviation	Characteristic Deflection-Dc (mm)
	Chainage (km)	Offset from pavement edge (m)	Surfacing (Good/Fair/Poor/Very Poor)	Crack Type	Rut Depth (mm)	Initial	Intermediate	Final	(Di-Df)											
	Jalnekars Carpet	1.5	Good			5.00	4.75	4.71	0.04	0.585	35	37	31	2	0.02	1.08	0.61			
	Nanded Education Society	1.5	Good			8.00	7.69	7.63	0.06	0.747	35	37	31	2	0.02	1.08	0.79			
	Sub Inspector Office	1.5	Good			2.00	1.76	1.73	0.03	0.543	35	36	30	1	0.01	1.08	0.58			
	Anti Corruption Office	1.5	Good			4.00	3.78	3.75	0.03	0.503	35	36	30	1	0.01	1.08	0.53			
	Dakshata Police Shahkari	1.5	Good			6.00	5.71	5.66	0.05	0.686	35	36	30	1	0.01	1.08	0.73			
	Nisha Pan Centre	1.5	Good			4.00	3.74	3.70	0.04	0.605	35	36	30	1	0.01	1.08	0.64			
	Gulmohar House	1.5	Good			3.00	2.68	2.63	0.05	0.746	35	36	30	1	0.01	1.08	0.79			
	Rest House	1.5	Good			7.00	6.77	6.73	0.04	0.545	35	36	30	1	0.01	1.08	0.58			
	Devgiri Rest House	1.5	Good			4.00	3.76	3.73	0.03	0.543	35	36	30	1	0.01	1.08	0.58			
	Laxmi Niwas	1.5	Good			3.00	2.80	2.76	0.04	0.485	35	36	30	1	0.01	1.08	0.51			
	Collector House	1.5	Good			1.00	0.78	0.73	0.05	0.546	35	36	30	1	0.01	1.08	0.58			
	Vikas Bank	1.5	Good			5.00	4.75	4.71	0.04	0.585	35	36	30	1	0.01	1.08	0.62			
	Gene Mandir Owner	1.5	Good			3.00	2.81	2.76	0.05	0.486	35	36	30	1	0.01	1.08	0.51			
	Associates of	1.5	Good			2.00	1.78	1.74	0.04	0.525	35	36	30	1	0.01	1.08	0.56			
	Pawan STD	1.5	Good			6.00	5.80	5.75	0.05	0.506	35	36	30	1	0.01	1.08	0.54			
	Godawari Lodge	1.5	Good			4.00	3.60	3.57	0.03	0.863	35	36	30	1	0.01	1.08	0.92			
	Arun Oil Industries	1.5	Good			6.00	5.79	5.74	0.05	0.526	35	36	30	1	0.01	1.08	0.56			
	Amazing Ice Cream	1.5	Good			1.00	0.82	0.75	0.07	0.508	35	36	30	1	0.01	1.08	0.54			
	Prince Sari Shop	1.5	Good			3.00	2.78	2.73	0.05	0.546	35	35	29	0	0	1.08	0.59			
	Sharma STD	1.5	Good			3.00	2.66	2.61	0.05	0.786	35	35	29	0	0	1.08	0.85			
	Shivaji Nagar Police Station	1.5	Good			4.00	3.73	3.67	0.06	0.667	35	35	29	0	0	1.08	0.72			
	Cool Crafe Sales	1.5	Good			3.00	2.75	2.71	0.04	0.585	35	35	29	0	0	1.08	0.63			
	SBI ATM	1.5	Good			2.00	1.72	1.67	0.05	0.666	35	35	29	0	0	1.08	0.72			
	Hotel Uma	1.5	Good			4.00	3.68	3.60	0.08	0.809	35	35	29	0	0	1.08	0.87			
	Marathwada Printers	1.5	Good			7.00	6.72	6.68	0.04	0.645	35	35	29	0	0	1.08	0.70			
	Jal Readymade	1.5	Good			8.00	7.79	7.74	0.05	0.526	35	35	29	0	0	1.08	0.57			
	Balaji Trading Co.	1.5	Good			3.00	2.78	2.72	0.06	0.567	35	35	29	0	0	1.08	0.61			
	Viaibhav Collection	1.5	Good			5.00	4.68	4.64	0.04	0.725	35	35	29	0	0	1.08	0.78			
	Modern Medical	1.5	Good			1.00	0.71	0.68	0.03	0.643	35	35	29	0	0	1.08	0.69			
	Alibhai Tower	1.5	Good			6.00	5.76	5.72	0.04	0.565	35	35	29	0	0	1.08	0.61			
	Bhaji Lodging	1.5	Good			4.00	3.78	3.75	0.03	0.503	35	35	29	0	0	1.08	0.54			
	Moonlight Lodge	1.5	Good			1.00	0.76	0.71	0.05	0.586	35	40	36	5	0.05	1.08	0.58			
	UTI Bank	1.5	Good			4.00	3.71	3.67	0.04	0.665	35	40	36	5	0.05	1.08	0.66			
	Mustan Travels	1.5	Good			7.00	6.69	6.64	0.05	0.726	35	40	36	5	0.05	1.08	0.73			
	Kadam Hospital	1.5	Good			5	4.71	4.66	0.05	0.686	35	40	36	5	0.05	1.08	0.69			
	DCB ATM	1.5	Good			3.00	2.78	2.74	0.04	0.525	35	40	36	5	0.05	1.08	0.51			
	Ayurvedic College	1.5	Good			6.00	5.72	5.67	0.05	0.666	35	40	36	5	0.05	1.08	0.67			
	Pankaj Mansion	1.5	fair			3.00	2.68	2.64	0.04	0.725	35	40	36	5	0.05	1.08	0.73			
	Bhosikar Hospital	1.5	fair			1.00	0.69	0.60	0.09	0.810	35	40	36	5	0.05	1.08	0.82			
	Office of the Supritendent	1.5	Good			4.00	3.73	3.68	0.05	0.646	35	40	36	5	0.05	1.08	0.64			
	Lotus Hospital	1.5	Good			7.00	6.71	6.66	0.05	0.686	35	40	36	5	0.05	1.08	0.69			
	Wazirabad Corner	1.5	Good			5.00	4.70	4.64	0.06	0.727	35	40	36	5	0.05	1.08	0.73	0.67	0.21	1.10
Location : Road 8 Mutha- Mahavir -Berki Chowk(2 Lane)																				
	Mutha Chowk	0.9	Good			4.00	3.68	3.65	0.03	0.703	35	39	33	4	0.04	1.1	0.73			
	Sagamkar Traders	0.9	Good			7.00	6.63	6.59	0.04	0.825	35	39	33	4	0.04	1.1	0.86			
	Hanuman Mandir	0.9	Good			5.00	4.72	4.69	0.03	0.623	35	39	33	4	0.04	1.1	0.64			
	Jai Durga Mandir	0.9	Good			7.00	6.78	6.74	0.04	0.525	35	39	33	4	0.04	1.1	0.53			
	Kamal Sweet & Dairy	0.9	Good			6.00	5.75	5.72	0.03	0.563	35	39	33	4	0.04	1.1	0.58			
	Kotak Security	0.9	Good			2.00	1.70	1.66	0.04	0.685	35	39	33	4	0.04	1.1	0.71			
	Radha Swami Katpees Centr	0.9	Good			1.00	0.69	0.65	0.04	0.705	35	39	33	4	0.04	1.1	0.73			
	Raymond Suiting	0.9	Good	-	-	3.00	2.68	2.65	0.03	0.703	35	39	33	4	0.04	1.1	0.73			
	Basatwar Opticals	0.9	Good	-	-	2.00	1.70	1.67	0.03	0.663	35	39	33	4	0.04	1.1	0.69			
	Amol Ladies Collection	0.9	Good	-	-	6.00	5.68	5.64	0.04	0.725	35	39	33	4	0.04	1.1	0.75			
	Pankaj Katpees Centre	0.9	Good	-	-	8.00	7.75	7.71	0.04	0.585	35	39	33	4	0.04	1.1	0.60			
	Mahaveer Chowk	0.9	Good	-	-	1.00	0.70	0.66	0.04	0.685	35	39	33	4	0.04	1.1	0.71			
	Nanda Baha Door Market	0.9	Good	-	-	3.00	2.61	2.56	0.05	0.886	35	39	33	4	0.04	1.1	0.93			
	Bank Of Maharashtra	0.9	Good	-	-	5.00	4.68	4.64	0.04	0.725	35	39	33	4	0.04	1.1	0.75			
	Prem Kaur Niwas	0.9	Good			4.00	3.71	3.67	0.04	0.665	35	39	33	4	0.04	1.1	0.69			
	Jaya Electricals	0.9	Good			3.00	2.72	2.69	0.03	0.623	35	39	32	4	0.04	1.1	0.64			
	ANP Bank analysis analysis	0.9	Good			1.00	0.68	0.64	0.04	0.725	35	39	32	4	0.04	1.1	0.75			

**Annexure 3.5
RBD Analysis**

Direction	Test Location		Pavement Condition at			Dial gauge readings (mm)				Deflection (mm)	Pavement temperature (deg. Celcius)	Pavement temperature (deg. Celcius) & time of observation	Ambient Temperature (deg. Celcius)	Temperature Difference	Temperature Correction Factor	Seasonal Correction Factor	Corrected Deflection (mm)	Average Deflection (for each road section)	Std. Deviation	Characteristic Deflection-Dc (mm)
	Chainage (km)	Offset from pavement edge (m)	Surfacing (Good/Fair/Poor/Very Poor)	Crack Type	Rut Depth (mm)	Initial	Intermediate	Final	(Di-Df)											
	Ashok Paper Mart	0.9	Good			6.00	5.65	5.62	0.03	0.763	35	39	32	4	0.04	1.1	0.80			
	Diamond Ladies Emporium	0.9	Good			8.00	7.68	7.63	0.05	0.746	35	39	32	4	0.04	1.1	0.78			
	Indian Stores	0.9	Good			6.00	5.69	5.65	0.04	0.705	35	39	32	4	0.04	1.1	0.73			
	Elegant Tailors	0.9	Good			5.00	4.71	4.68	0.03	0.643	35	39	32	4	0.04	1.1	0.66			
	Amrit Automobiles Stores	0.9	Fair			3.00	2.60	2.54	0.06	0.927	35	39	32	4	0.04	1.1	0.98			
	Asam Tea Depot	0.9	Good			7.00	6.69	6.66	0.03	0.683	35	39	32	4	0.04	1.1	0.71			
	Juna Maunda Tower	0.9	Good			5.00	4.76	4.72	0.04	0.565	35	37	29	2	0.02	1.1	0.60			
	Tourist vgapari lodge	0.9	Good			2.00	1.72	1.68	0.04	0.645	35	37	29	2	0.02	1.1	0.69			
	Kachhi Trading Company	0.9	Good			4.00	3.68	3.65	0.03	0.703	35	37	29	2	0.02	1.1	0.75			
	Revankar Cloth Centre	0.9	Good			6.00	5.76	5.72	0.04	0.565	35	37	29	2	0.02	1.1	0.60			
	Bank Of Maharashtra	0.9	Good			7.00	6.68	6.64	0.04	0.725	35	37	29	2	0.02	1.1	0.78			
	Mhalakshmi Sari Centre	0.9	Good			5.00	4.72	4.68	0.04	0.645	35	37	29	2	0.02	1.1	0.69			
	Ganesh Paint House	0.9	Good			1.00	0.69	0.65	0.04	0.705	35	37	29	2	0.02	1.1	0.75			
	Gita Cloth Centre	0.9	Good			2.00	1.72	1.67	0.05	0.666	35	37	29	2	0.02	1.1	0.71			
	Police Chowki/Habib Talkies	0.9	Good			5.00	4.67	4.63	0.04	0.745	35	37	29	2	0.02	1.1	0.80			
	Raunak Saries	0.9	Good			7.00	6.69	6.65	0.04	0.705	35	37	29	2	0.02	1.1	0.75			
	Hindustan Copper Brass	0.9	Good			4.00	3.76	3.72	0.04	0.565	35	37	29	2	0.02	1.1	0.60			
	Ruby Colour Studio	0.9	Good			1.00	0.78	0.75	0.03	0.503	35	37	29	2	0.02	1.1	0.53			
	Burki Chowk	0.9	Good			6.00	5.61	5.57	0.04	0.865	35	37	29	2	0.02	1.1	0.93	0.72	0.10	0.92
Location : Road 10 Mutha Chowk To Goverdhan Ghat (2 Lane)																				
	Mutha Chowk	0.9	Fair			4.00	3.59	3.56	0.03	0.883	35	36	31	1	0.01	1.2	1.05			
	Praclet Hspital	0.9	Fair			1.00	0.65	0.62	0.03	0.763	35	36	31	1	0.01	1.2	0.90			
	Vijay Samaj Seva Kendra	0.9	Fair			3.00	2.79	2.75	0.04	0.505	35	36	31	1	0.01	1.2	0.59			
	Swadhayay Classes	0.9	Fair			7.00	6.67	6.64	0.03	0.723	35	36	31	1	0.01	1.2	0.86			
	Renuka General Stores	0.9	Fair			5.00	4.63	4.59	0.04	0.825	35	36	31	1	0.01	1.2	0.98			
	Balaji Pan shop	0.9	Fair			2.00	1.75	1.72	0.03	0.563	35	36	31	1	0.01	1.2	0.66			
	Kardile Hospital	0.9	Fair			1.00	0.77	0.73	0.04	0.545	35	36	31	1	0.01	1.2	0.64			
	Dhanabai Niwas	0.9	Fair			3.00	2.73	2.69	0.04	0.625	35	36	31	1	0.01	1.2	0.74			
	Sagar Furniture	0.9	Fair			1.00	0.74	0.70	0.04	0.605	35	36	31	1	0.01	1.2	0.71			
	Balaji Seva Kendra	0.9	Fair			5.00	4.76	4.73	0.03	0.543	35	36	31	1	0.01	1.2	0.64			
	Sham Kirana Stores	0.9	Fair			4.00	3.88	3.86	0.02	0.280	35	36	31	1	0.01	1.2	0.32			
	Country Bar	0.9	Fair			2.00	1.78	1.77	0.01	0.460	35	36	31	1	0.01	1.2	0.54	0.72	0.20	1.12
Location : Road 18 Gandhi Statue To Mahavir Chowk (2 Lane)																				
	Gandhi Statue	0.9	Good			7.00	6.80	6.77	0.03	0.463	35	36	31	1	0.01	1.2	0.54			
	Nand Radio Centre	0.9	Fair			5.00	4.82	3.79	1.03	2.540	35	36	31	1	0.01	1.2	3.04			
	Vishal Electronics	0.9	Good			2.00	1.79	1.76	0.03	0.483	35	36	31	1	0.01	1.2	0.57			
	Bank OF Baroda	0.9	Good			4.00	3.77	3.74	0.03	0.523	35	36	31	1	0.01	1.2	0.62			
	Mahaveer Chowk	0.9	Good			3.00	2.80	2.77	0.03	0.463	35	36	31	1	0.01	1.2	0.54	1.06	1.10	3.27
Location : Road 17 Gurudwara Gate No.1 To Dena Bank To Nagina Ghat (1 Lane)																				
	Gurudwara Gate no 1	0.6	Fair			3.00	2.70	2.67	0.03	0.663	35	39	33	4	0.04	1.2	0.75			
	Satguru Printing Press	0.6	Fair			5.00	4.72	4.69	0.03	0.623	35	39	33	4	0.04	1.2	0.70			
	Hanuman Mandir	0.6	Fair			6.00	5.68	5.66	0.02	0.680	35	39	33	4	0.04	1.2	0.77			
	Raj Steel Centre	0.6	Fair			5.00	4.65	4.63	0.02	0.740	35	39	33	4	0.04	1.2	0.84			
	Puja Gift House	0.6	Fair			3.00	2.71	2.68	0.03	0.643	35	39	33	4	0.04	1.2	0.72			
	Janta Optical House	0.6	Good			1.00	0.73	0.68	0.05	0.646	35	39	33	4	0.04	1.2	0.73	0.75	0.05	0.85
	Dena Bank To Nagina Ghat																			
Location : Road 19 Hingoli gate To Forest office To Banda Ghat (4 Lane)																				
	Sagar Automobiles	1.5	Good			4.00	3.65	3.61	0.04	0.785	35	42	35	7	0.07	1.2	0.86			
	Kotgire Scooter	1.5	Good			5.00	4.68	4.65	0.03	0.703	35	42	35	7	0.07	1.2	0.76			
	Bharat Gas	1.5	Good			6.00	5.62	5.58	0.04	0.845	35	42	35	7	0.07	1.2	0.93			
	Vrutisakha nagar	1.5	Good			2.00	1.71	1.68	0.03	0.643	35	42	35	7	0.07	1.2	0.69			
	Vijay Pan Centre	1.5	Good			3.00	2.60	2.57	0.03	0.863	35	42	35	7	0.07	1.2	0.95			
	Bholenath Tea Centre	1.5	Good			5.00	4.77	4.75	0.02	0.500	35	42	35	7	0.07	1.2	0.52			
	Board of Muncipal	1.5	Good			4.00	3.71	3.67	0.04	0.665	35	42	35	7	0.07	1.2	0.71			
	Durba Raswanti	1.5	Good			7.00	6.63	6.61	0.02	0.780	35	42	35	7	0.07	1.2	0.85			
	Dr. Sunil Vaykule' s House	1.5	Good			2.00	1.75	1.71	0.04	0.585	35	42	35	7	0.07	1.2	0.62			
	Police Chowki	1.5	Good			1.00	0.72	0.67	0.05	0.666	35	42	35	7	0.07	1.2	0.71			
	Shanti Niwas	1.5	Good			5.00	4.71	4.68	0.03	0.643	35	42	35	7	0.07	1.2	0.69			
	Hotel Neel Gagan	1.5	Good			3.00	2.68	2.65	0.03	0.703	35	42	35	7	0.07	1.2	0.76			

Direction	Test Location		Pavement Condition at			Dial gauge readings (mm)				Deflection (mm)	Pavement temperature (deg. Celcius)	Pavement temperature (deg. Celcius) & time of observation	Ambient Temperature (deg. Celcius)	Temperature Difference	Temperature Correction Factor	Seasonal Correction Factor	Corrected Deflection (mm)	Average Deflection (for each road section)	Std. Deviation	Characteristic Deflection-Dc (mm)
	Chainage (km)	Offset from pavement edge (m)	Surfacing (Good/Fair/Poor/Very Poor)	Crack Type	Rut Depth (mm)	Initial	Intermediate	Final	(Di-Df)											
	Avtar Studio	1.5	Good			1.00	0.64	0.60	0.04	0.805	35	42	35	7	0.07	1.2	0.88			
	Jaylakshmi Medicals	1.5	Good			6.00	5.77	5.74	0.03	0.523	35	42	35	7	0.07	1.2	0.54			
	Balaji Hospital	1.5	Good			5.00	4.79	4.75	0.04	0.505	35	42	35	7	0.07	1.2	0.52			
	Chikhawadi Chowk	1.5	Good			7	6.68	6.65	0.03	0.703	35	42	35	7	0.07	1.2	0.76			
	Sub Divisional Engineer	1.5	Fair			2.00	1.56	1.51	0.05	0.986	35	42	35	7	0.07	1.2	1.10			
	Bank Of Baroda	1.5	Fair			5.00	4.79	4.75	0.04	0.505	35	42	35	7	0.07	1.2	0.52			
	Krishna Collection	1.5	Good			2.00	1.72	1.67	0.05	0.666	35	42	35	7	0.07	1.2	0.71			
	Sanjay Book Depot	1.5	Good			3.00	2.68	2.65	0.03	0.703	35	42	35	7	0.07	1.2	0.76	0.74	0.16	1.06
Location : Road 23 Wazirabad Road To Banda Ghat (2 Lane)																				
	Khushi Ladies Collection	0.9	Good			5.00	4.69	4.66	0.03	0.683	35	42	35	7	0.07	1.2	0.74			
	John Players Collection	0.9	Good			2.00	1.65	1.63	0.02	0.740	35	42	35	7	0.07	1.2	0.80			
	Shikshketan Patpedhi	0.9	Good			4.00	3.70	3.66	0.04	0.685	35	42	35	7	0.07	1.2	0.74			
	Mohit STD	0.9	Good			1.00	0.81	0.77	0.04	0.465	35	42	35	7	0.07	1.2	0.47			
	Patel & Company	0.9	Good			6.00	5.66	5.62	0.04	0.765	35	42	35	7	0.07	1.2	0.83			
	Nevasekar Hospital	0.9	Good			8.00	7.78	7.75	0.03	0.503	35	42	35	7	0.07	1.2	0.52			
	Gajanan Laundhry	0.9	Good			3.00	2.61	2.57	0.04	0.865	35	42	35	7	0.07	1.2	0.95			
	Pratibha Niketan College	0.9	Good			2.00	1.68	1.65	0.03	0.703	35	42	35	7	0.07	1.2	0.76			
	Bada Ghat Gurudawra	0.9	Good			5.00	4.69	4.65	0.04	0.705	35	42	35	7	0.07	1.2	0.76	0.73	0.15	1.03
Location : Road 28 Sapna Petrol Pump to Old Mandla To New Bridge On Godavari (4 Lane)																				
	Bafna Petrol Pump	1.5	Good			1.00	0.78	0.75	0.03	0.503	35	41	37	6	0.06	1.2	0.53			
	Bhagwati Oil Services	1.5	Good			4.00	3.74	3.70	0.04	0.605	35	41	37	6	0.06	1.2	0.65			
	Saber Motor Garage	1.5	Good			5.00	4.71	4.67	0.04	0.665	35	41	37	6	0.06	1.2	0.73			
	Deep Electronic& Electricals	1.5	Good			6.00	5.69	5.66	0.03	0.683	35	41	37	6	0.06	1.2	0.75			
	Raj Automobiles	1.5	Fair			8.00	7.65	7.62	0.03	0.763	35	41	37	6	0.06	1.2	0.84			
	Vinayak Auto Agencies	1.5	Good			3.00	2.70	2.66	0.04	0.685	35	41	37	6	0.06	1.2	0.75			
	Sachkhand STD	1.5	Good			5.00	4.72	4.69	0.03	0.623	35	41	37	6	0.06	1.2	0.68			
	Singh Good Transport	1.5	Good			6.00	5.70	5.68	0.02	0.640	35	41	37	6	0.06	1.2	0.70			
	Retail Kirana Stores	1.5	Good			1.00	0.74	0.71	0.03	0.583	35	41	37	6	0.06	1.2	0.63			
	Sagar Electricals	1.5	Fair			4.00	3.70	3.68	0.02	0.640	35	41	37	6	0.06	1.2	0.70			
	Sanni Dhaba	1.5	Fair			2.00	1.66	1.62	0.04	0.765	35	41	37	6	0.06	1.2	0.85			
	Khalsa plant Station	1.5	Fair			4.00	3.65	3.62	0.03	0.763	35	41	37	6	0.06	1.2	0.84			
	Singh Transport Company	1.5	Fair			3.00	2.69	2.65	0.04	0.705	35	41	37	6	0.06	1.2	0.77			
	Pandurang Kirana	1.5	Fair			4.00	3.71	3.68	0.03	0.643	35	41	37	6	0.06	1.2	0.70			
	Krishna Provision	1.5	Fair			7.00	6.70	6.66	0.04	0.685	35	41	37	6	0.06	1.2	0.75			
	Kapoor General Stores	1.5	Fair			5.00	4.76	4.73	0.03	0.543	35	41	37	6	0.06	1.2	0.58	0.72	0.09	0.90
Location : Road 28 Sapna Petrol Pump to Old Mandla To New Bridge On Godavari (2 Lane)																				
	Kolhapure Shop	0.9	Good			6.00	5.74	5.71	0.03	0.583	35	40	36	5	0.05	1.2	0.64			
	Bajrang Tea	0.9	Fair			4.00	3.66	3.62	0.04	0.765	35	40	36	5	0.05	1.2	0.86			
	Ratan Glass	0.9	Good			1.00	0.70	0.65	0.05	0.706	35	40	36	5	0.05	1.2	0.79			
	Old Munda Chowk	0.9	Good			3.00	2.75	2.71	0.04	0.585	35	40	36	5	0.05	1.2	0.64			
	Police Chowki	0.9	Fair			4.00	3.67	3.63	0.04	0.745	35	40	36	5	0.05	1.2	0.83			
	Kalash Trading Company	0.9	Fair			7.00	6.64	6.61	0.03	0.783	35	40	36	5	0.05	1.2	0.88			
	Iaxmi Coconut General Store	0.9	Fair			5.00	4.70	4.66	0.04	0.685	35	40	36	5	0.05	1.2	0.76	0.77	0.10	0.97
Location : Road 30 Milk Dairy To Latur Road (1 Lane)																				
	T. V.Centre	0.6	Poor			1.00	0.48	0.37	0.11	1.273	35	47	40	12	0.12	1.2	1.38			
	Pradhnya Library	0.6	Poor			5.00	4.44	4.29	0.15	1.437	35	47	40	12	0.12	1.2	1.58			
	Vaibhav Niwas	0.6	Poor			3.00	2.48	2.40	0.08	1.209	35	47	40	12	0.12	1.2	1.31			
	Hand Pump	0.6	Poor			6.00	5.40	5.31	0.09	1.390	35	47	40	12	0.12	1.2	1.52			
	Anand Cycle	0.6	Poor			4.00	3.41	3.36	0.05	1.286	35	47	40	12	0.12	1.2	1.40			
	Masjid Area	0.6	Poor			7.00	6.44	6.37	0.07	1.268	35	47	40	12	0.12	1.2	1.38			
	Sai Tailors	0.6	Poor			1.00	0.39	0.28	0.11	1.453	35	47	40	12	0.12	1.2	1.60			
	Saptashrunji Pan Centre	0.6	Fair			4.00	3.60	3.57	0.03	0.863	35	47	40	12	0.12	1.2	0.89			
	Gokuldam	0.6	Fair			5.00	4.52	4.48	0.04	1.045	35	47	40	12	0.12	1.2	1.11			
	Ray Dip House	0.6	Fair			3.00	2.56	2.51	0.05	0.986	35	47	40	12	0.12	1.2	1.04			
	Hari Garden	0.6	Fair			2.00	1.51	1.47	0.04	1.065	35	47	40	12	0.12	1.2	1.13			
	Small Bridge	0.6	Poor			3.00	2.30	2.22	0.08	1.569	35	47	40	12	0.12	1.2	1.74			
	Dattatraya House	0.6	Very Poor			2.00	1.29	1.17	0.12	1.674	35	47	40	12	0.12	1.2	1.86			
	Bharat Gas	0.6	Very Poor			2.00	1.35	1.27	0.08	1.469	35	47	40	12	0.12	1.2	1.62			
	Maharshi Valmik Chowk	0.6	Fair			5.00	4.55	4.51	0.04	0.985	35	47	40	12	0.12	1.2	1.04			

Direction	Test Location		Pavement Condition at			Dial gauge readings (mm)				Deflection (mm)	Pavement temperature (deg. Celcius)	Pavement temperature (deg. Celcius) & time of observation	Ambient Temperature (deg. Celcius)	Temperature Difference	Temperature Correction Factor	Seasonal Correction Factor	Corrected Deflection (mm)	Average Deflection (for each road section)	Std. Deviation	Characteristic Deflection-Dc (mm)
	Chainage (km)	Offset from pavement edge (m)	Surfacing (Good/Fair/Poor/Very Poor)	Crack Type	Rut Depth (mm)	Initial	Intermediate	Final	(Di-Df)											
		0.6	Fair			7.00	6.61	6.58	0.03	0.843	35	47	40	12	0.12	1.2	0.87			
	Yadav Plot	0.6	Poor			1.00	0.45	0.39	0.06	1.227	35	47	40	12	0.12	1.2	1.33			
	Swamiji Mandir	0.6	Very Poor			4.00	3.35	3.26	0.09	1.490	35	47	40	12	0.12	1.2	1.64			
	Sai Baba Mandir Gate	0.6	Very Poor			4.00	3.47	3.39	0.08	1.229	35	47	40	12	0.12	1.2	1.33	1.36	0.29	1.93
Location : Road 32 Airport Forest Naka To Chatrapati Nagar (2 Lane)																				
	Gurukrupa Transport	0.9	Good			8.00	7.85	7.81	0.04	0.385	35	47	40	12	0.12	1.2	0.32			
	Thakar Niwas	0.9	Fair			4.00	3.65	3.52	0.13	0.975	35	47	40	12	0.12	1.2	1.03			
	Rail Vikas Sadan	0.9	Poor			7.00	6.47	6.31	0.16	1.399	35	47	40	12	0.12	1.2	1.53			
	Div. Rly Manager Office	0.9	Good			4.00	3.79	3.62	0.17	0.780	35	47	40	12	0.12	1.2	0.79			
	Rail Vikas Sadan	0.9	Poor			6.00	5.35	5.19	0.16	1.639	35	47	40	12	0.12	1.2	1.82			
		0.9	Good			3.00	2.65	2.58	0.07	0.848	35	47	40	12	0.12	1.2	0.87			
	Rail Sadan	0.9	Poor			5.00	4.40	4.29	0.11	1.433	35	47	40	12	0.12	1.2	1.58			
		0.9	Good			8.00	7.75	7.68	0.07	0.648	35	47	40	12	0.12	1.2	0.63			
	Rail Sadan	0.9	Good/Fair			2.00	1.61	1.52	0.09	0.970	35	47	40	12	0.12	1.2	1.02			
		0.9	Poor			5.00	4.48	4.32	0.16	1.379	35	47	40	12	0.12	1.2	1.51			
		0.9	Good			3.00	2.76	2.69	0.07	0.628	35	47	40	12	0.12	1.2	0.61			
		0.9	Poor			1.00	0.44	0.29	0.15	1.437	35	47	40	12	0.12	1.2	1.58			
		0.9	Good			6.00	5.67	5.61	0.06	0.787	35	47	40	12	0.12	1.2	0.80			
	Railway Quarters	0.9	Poor			7.00	6.46	6.31	0.15	1.397	35	47	40	12	0.12	1.2	1.53			
		0.9	Good/Fair			1.00	0.72	0.65	0.07	0.708	35	47	40	12	0.12	1.2	0.71			
		0.9	Fair			4.00	3.66	3.59	0.07	0.828	35	47	40	12	0.12	1.2	0.85			
	Railway Quarters	0.9	Good/Fair			2.00	1.64	1.57	0.07	0.868	35	46	39	11	0.11	1.2	0.91			
		0.9	Fair			6.00	5.51	5.44	0.07	1.128	35	46	39	11	0.11	1.2	1.22			
		0.9	Good			4.00	3.78	3.73	0.05	0.546	35	46	39	11	0.11	1.2	0.52			
		0.9	Fair			1.00	0.56	0.42	0.14	1.176	35	46	39	11	0.11	1.2	1.28			
		0.9	Good			7.00	6.68	6.63	0.05	0.746	35	46	39	11	0.11	1.2	0.76			
		0.9	Fair			3.00	2.60	2.51	0.09	0.990	35	46	39	11	0.11	1.2	1.06			
		0.9	Fair			4.00	3.58	3.50	0.08	1.009	35	46	39	11	0.11	1.2	1.08			
		0.9	Good			6.00	5.71	5.68	0.03	0.643	35	46	39	11	0.11	1.2	0.64			
		0.9	Fair			8.00	7.69	7.62	0.07	0.768	35	46	39	11	0.11	1.2	0.79			
	K.V Up Kendra Sangvil	0.9	Poor			6.00	5.51	5.40	0.11	1.213	35	43	39	8	0.08	1.2	1.36			
		0.9	Fair			5.00	4.63	4.54	0.09	0.930	35	43	39	8	0.08	1.2	1.02			
		0.9	Good/Fair			3.00	2.69	2.62	0.07	0.768	35	43	39	8	0.08	1.2	0.83			
	Sangvi 2	0.9	Good			7.00	6.74	6.71	0.03	0.583	35	43	39	8	0.08	1.2	0.60			
	ShivMandir	0.9	Good			2.00	1.68	1.61	0.07	0.788	35	43	39	8	0.08	1.2	0.85			
	Gani Colony	0.9	Good			1.00	0.72	0.68	0.04	0.645	35	43	39	8	0.08	1.2	0.68			
	Hitech Servicing Centre	0.9	Good			8.00	7.60	7.56	0.04	0.885	35	43	39	8	0.08	1.2	0.97			
	rear tech Computers	0.9	Fair			4.00	3.56	3.48	0.08	1.049	35	42	38	7	0.07	1.2	1.18			
	ShivMandir	0.9	Poor			7.00	6.40	6.29	0.11	1.433	35	42	38	7	0.07	1.2	1.64			
	Shubhan Café	0.9	Good			5.00	4.75	4.63	0.12	0.754	35	42	38	7	0.07	1.2	0.82			
	Puja Naurang Home	0.9	Good			4.00	3.68	3.61	0.07	0.788	35	42	38	7	0.07	1.2	0.86			
	Sai Communication	0.9	Good			3.00	2.74	2.67	0.07	0.668	35	42	38	7	0.07	1.2	0.72			
	Life Insurance	0.9	Good			5.00	4.68	4.61	0.07	0.788	35	42	38	7	0.07	1.2	0.86			
	TarodekarChambers	0.9	Good			1.00	0.70	0.61	0.09	0.790	35	42	38	7	0.07	1.2	0.86			
	Yash Park	0.9	Good			5.00	4.61	4.56	0.05	0.886	35	42	38	7	0.07	1.2	0.98			
	Vithai Bakeri	0.9	Poor			8.00	7.41	7.29	0.12	1.434	35	42	38	7	0.07	1.2	1.64			
	Ruby Academy	0.9	Good			6.00	5.69	5.62	0.07	0.768	35	42	38	7	0.07	1.2	0.84			
	Subodh coding Classes	0.9	Good			8	7.65	7.61	0.04	0.785	35	42	38	7	0.07	1.2	0.86			
	Marathwada Bank	0.9	Good			3.00	2.60	2.53	0.07	0.948	35	42	38	7	0.07	1.2	1.05			
	Potdar College	0.9	Fair			3.00	2.61	2.54	0.07	0.928	35	42	38	7	0.07	1.2	1.03			
	Jijai Hospital	0.9	Fair			5.00	4.58	4.52	0.06	0.967	35	42	38	7	0.07	1.2	1.08			
	Mahasarswati Printing Press	0.9	Good			2.00	1.68	1.64	0.04	0.725	35	41	38	6	0.06	1.2	0.80			
	Maratha Darbar	0.9	Fair			6.00	5.53	5.44	0.09	1.130	35	41	38	6	0.06	1.2	1.28			
	Shir Electricals	0.9	Fair			3.00	2.64	2.56	0.08	0.889	35	41	38	6	0.06	1.2	1.00			
	Akash Entreprises	0.9	Fair			5.00	4.67	4.61	0.06	0.787	35	41	38	6	0.06	1.2	0.87			
	Sagar Juice Centre	0.9	Fair			1.00	0.62	0.58	0.04	0.845	35	41	38	6	0.06	1.2	0.94			
	SatpalKiran&General	0.9	Fair			8.00	7.72	7.65	0.07	0.708	35	41	38	6	0.06	1.2	0.78			
	Pawar Daily Needs Stores	0.9	Good			4.00	3.75	3.71	0.04	0.585	35	41	38	6	0.06	1.2	0.63			
	Chief Engineer MSEB	0.9	Fair			2.00	1.78	1.73	0.05	0.546	35	41	38	6	0.06	1.2	0.58			
	ANND Bank and Bank	0.9	Good			5.00	4.78	4.75	0.03	0.503	35	41	38	6	0.06	1.2	0.53			

**Annexure 3.5
RBD Analysis**

Direction	Test Location		Pavement Condition at			Dial gauge readings (mm)				Deflection (mm)	Pavement temperature (deg. Celcius)	Pavement temperature (deg. Celcius) & time of observation	Ambient Temperature (deg. Celcius)	Temperature Difference	Temperature Correction Factor	Seasonal Correction Factor	Corrected Deflection (mm)	Average Deflection (for each road section)	Std. Deviation	Characteristic Deflection-Dc (mm)
	Chainage (km)	Offset from pavement edge (m)	Surfacing (Good/Fair/Poor/Very Poor)	Crack Type	Rut Depth (mm)	Initial	Intermediate	Final	(Di-Df)											
	Krishna Book Depot	0.9	Poor			3.00	2.47	2.34	0.13	1.335	35	41	38	6	0.06	1.2	1.53			
	Kadam Care Clinic	0.9	Fair			1.00	0.67	0.63	0.04	0.745	35	41	38	6	0.06	1.2	0.82			
	Telephone Exchange	0.9	Fair			4.00	3.69	3.64	0.05	0.726	35	41	38	6	0.06	1.2	0.80			
	Gajanan Auto	0.9	Good			2.00	1.76	1.71	0.05	0.586	35	41	38	6	0.06	1.2	0.63			
	Reliance Sales	0.9	Good			1.00	0.80	0.77	0.03	0.463	35	41	38	6	0.06	1.2	0.48			
	Prakash Garage	0.9	Fair			8.00	7.78	7.73	0.05	0.546	35	39	31	4	0.04	1.2	0.61			
	LML Workshop	0.9	Fair			3.00	2.72	2.67	0.05	0.666	35	39	31	4	0.04	1.2	0.75			
	Sanjivani Hospital	0.9	Fair			5.00	4.69	4.65	0.04	0.705	35	39	31	4	0.04	1.2	0.80			
	Venketeshwara App.	0.9	Fair			2.00	1.73	1.68	0.05	0.646	35	39	31	4	0.04	1.2	0.73			
	Amar Gadi Ghar	0.9	Fair			5.00	4.75	4.70	0.05	0.606	35	39	31	4	0.04	1.2	0.68			
	Prince Tailor	0.9	Good			7.00	6.77	6.73	0.04	0.545	35	43	31	8	0.08	1.2	0.56			
	Ashish Complex	0.9	Good			1.00	0.76	0.73	0.03	0.543	35	43	31	8	0.08	1.2	0.56			
	Shubham Kirana	0.9	Fair			2.00	1.70	1.66	0.04	0.685	35	43	31	8	0.08	1.2	0.73			
	Abhinav Coaching Classes	0.9	Good			3.00	2.75	2.72	0.03	0.563	35	43	31	8	0.08	1.2	0.58			
	Brat Health Care	0.9	Good			5.00	4.73	4.70	0.03	0.603	35	43	31	8	0.08	1.2	0.63			
	Shivaji Chowk	0.9	Good			4.00	3.71	3.68	0.03	0.643	35	43	31	8	0.08	1.2	0.68			
	Rekteshwar Electronics	0.9	Fair			6.00	5.68	5.64	0.04	0.725	35	43	31	8	0.08	1.2	0.77			
	Deepak Hardware	0.9	Fair			2.00	1.70	1.66	0.04	0.685	35	43	31	8	0.08	1.2	0.73			
	Chatrapati Nagar	0.9	Good			3.00	2.72	2.69	0.03	0.623	35	43	31	8	0.08	1.2	0.65			
		0.9	Fair			5.00	4.66	4.62	0.04	0.765	35	43	31	8	0.08	1.2	0.82			
	Aara Machine	0.9	Fair			3.00	2.71	2.67	0.04	0.665	35	43	31	8	0.08	1.2	0.70			
	Shinde Hardware	0.9	Good/Fair			2.00	1.68	1.65	0.03	0.703	35	43	31	8	0.08	1.2	0.75			
	Pawale Natgagrah	0.9	Fair			6.00	5.66	5.62	0.04	0.765	35	43	31	8	0.08	1.2	0.82			
	Shri Ganesh Rajastani Furnit	0.9	Fair			4.00	3.68	3.62	0.06	0.767	35	43	31	8	0.08	1.2	0.82	0.90	0.32	1.53
Location : Road 34 Pawadewadi Naka To Rest House (1 Lane)																				
	SBI Pawadewadi Naka	0.6	Fair			2	1.58	1.56	0.02	0.880	35	47	38	12	0.12	1.2	0.91			
	Trishail	0.6	Poor			5	4.41	4.35	0.06	1.307	35	47	38	12	0.12	1.2	1.42			
	Shubham Niwas	0.6	Poor			3	2.45	2.39	0.06	1.227	35	47	38	12	0.12	1.2	1.33			
	Agriculture College	0.6	Poor			7	6.4	6.3	0.10	1.412	35	47	38	12	0.12	1.2	1.55	1.30	0.28	1.86
Location : Road 35 Shivaji Nagar ROB To Narashtapur (1 Lane)																				
	Gangotri Building	0.6	Good			1	0.79	0.76	0.03	0.483	35	46	37	11	0.11	1.2	0.45			
	Vyanketesh Hospital	0.6	Good			4	3.65	3.61	0.04	0.785	35	46	37	11	0.11	1.2	0.81			
	Ashwin Hospital	0.6	Good			6	5.79	5.75	0.04	0.505	35	46	37	11	0.11	1.2	0.47			
	Ujjawala Provision	0.6	Good			2	1.72	1.68	0.04	0.645	35	46	37	11	0.11	1.2	0.64			
	Tabella	0.6	Good			8	7.78	7.75	0.03	0.503	35	46	37	11	0.11	1.2	0.47			
	Datta Laundries	0.6	Good			5	4.75	4.71	0.04	0.585	35	46	37	11	0.11	1.2	0.57			
	Pradnya Niwas	0.6	Good			7	6.73	6.68	0.05	0.646	35	46	37	11	0.11	1.2	0.64			
	Saw Mill	0.6	Good			1	0.62	0.58	0.04	0.845	35	46	37	11	0.11	1.2	0.88			
	Suresh Gents Parlour	0.6	Good			4	3.72	3.69	0.03	0.623	35	46	37	11	0.11	1.2	0.62			
	Tara Tea Centre	0.6	Good			3	2.65	2.61	0.04	0.785	35	46	37	11	0.11	1.2	0.81			
	Adarsh Tent House	0.6	Good			6	5.68	5.64	0.04	0.725	35	46	37	11	0.11	1.2	0.74			
	Radhika Nursery	0.6	Good			4	3.72	3.69	0.03	0.623	35	46	37	11	0.11	1.2	0.62			
	Water Tank	0.6	Good			3	2.62	2.58	0.04	0.845	35	46	37	11	0.11	1.2	0.88			
	S.G.Computers	0.6	Good			5	4.69	4.66	0.03	0.683	35	46	37	11	0.11	1.2	0.69			
	Kagade Hospital	0.6	Fair			3	2.58	2.53	0.05	0.946	35	46	37	11	0.11	1.2	1.00	0.69	0.17	1.02
Location : Road 39 Anand Nagar Road (2 Lane)																				
	Mande Classes	0.9	Fair/Good			5	4.66	4.62	0.04	0.765	35	44	39	9	0.09	1.2	0.81			
	Prassana Travels	0.9	Fair			3	2.55	2.49	0.06	1.027	35	44	39	9	0.09	1.2	1.12			
	Nirmal Prakashan	0.9	Fair/Poor			7	6.35	6.27	0.08	1.469	35	44	39	9	0.09	1.2	1.66			
	Yogeshwari Electricacals	0.9	Good			4	3.62	3.58	0.04	0.845	35	44	39	9	0.09	1.2	0.91			
	Sunil Furnitures	0.9	Good			6	5.64	5.61	0.03	0.783	35	44	39	9	0.09	1.2	0.83			
	Sansar Super Market	0.9	Good			2	1.54	1.5	0.04	1.005	35	44	39	9	0.09	1.2	1.10			
	Dog Care Unit	0.9	Fair			4	3.53	3.48	0.05	1.046	35	44	39	9	0.09	1.2	1.15			
	Shirangan Electricals	0.9	Fair			7	6.5	6.42	0.08	1.169	35	44	39	9	0.09	1.2	1.30			
	Tirupati Type Writing	0.9	Fair			6	5.58	5.53	0.05	0.946	35	44	39	9	0.09	1.2	1.03	1.10	0.26	1.62
Location : Road 39 Anand Nagar Road (4 Lane)																				
	Prabhat Agencies	1.5	Fair			1	0.56	0.51	0.05	0.986	35	44	38	9	0.09	1.2	1.07			
	Amrut Medico	1.5	Fair			5	4.49	4.43	0.06	1.147	35	44	38	9	0.09	1.2	1.27			
	Satish Furnitures	1.5	Good			2	1.67	1.65	0.02	0.700	35	44	38	9	0.09	1.2	0.73			

Direction	Test Location		Pavement Condition at			Dial gauge readings (mm)				Deflection (mm)	Pavement temperature (deg. Celcius)	Pavement temperature (deg. Celcius) & time of observation	Ambient Temperature (deg. Celcius)	Temperature Difference	Temperature Correction Factor	Seasonal Correction Factor	Corrected Deflection (mm)	Average Deflection (for each road section)	Std. Deviation	Characteristic Deflection-Dc (mm)
	Chainage (km)	Offset from pavement edge (m)	Surfacing (Good/Fair/Poor/Very Poor)	Crack Type	Rut Depth (mm)	Initial	Intermediate	Final	(Di-Df)											
	Bhagyanagar	1.5	Good			3	2.62	2.58	0.04	0.845	35	44	38	9	0.09	1.2	0.91			
	Sai Electricals	1.5	Good			1	0.62	0.57	0.05	0.866	35	42	38	7	0.07	1.2	0.95			
	Suraj Custom Makers	1.5	Fair			7	6.54	6.47	0.07	1.068	35	42	38	7	0.07	1.2	1.20			
	Gitanjali Hospital	1.5	Good			4	3.68	3.65	0.03	0.703	35	42	38	7	0.07	1.2	0.76			
	Shrikrishan Traders	1.5	Fair			2	1.57	1.52	0.05	0.966	35	42	38	7	0.07	1.2	1.07			
	Makarana marbles & Garment	1.5	Fair			7	6.62	6.57	0.05	0.866	35	42	38	7	0.07	1.2	0.95			
	Suma Steel Appliances	1.5	Fair			3	2.52	2.49	0.03	1.023	35	42	38	7	0.07	1.2	1.14			
	Bright Academy	1.5	Fair			3	2.57	2.53	0.04	0.945	35	42	38	7	0.07	1.2	1.05			
	KGN Plaster	1.5	Fair			6	5.75	5.71	0.04	0.585	35	42	38	7	0.07	1.2	0.62			
	Samaj Kalyan Adhikari Office	1.5	Good			1	0.65	0.61	0.04	0.785	35	42	38	7	0.07	1.2	0.86			
	Shri Vishwakarma Furniture	1.5	Fair			4	3.71	3.67	0.04	0.665	35	42	38	7	0.07	1.2	0.71			
	Sidhivinayak Aluminium	1.5	Good			5	4.66	4.62	0.04	0.765	35	42	38	7	0.07	1.2	0.83			
	Adarsha Spardha Police academy	1.5	Good			5	4.71	4.67	0.04	0.665	35	41	35	6	0.06	1.2	0.73			
	Jay Shivray Nagari Sahari Bazar	1.5	Good			4	3.68	3.65	0.03	0.703	35	41	35	6	0.06	1.2	0.77			
	Rajesh Traders	1.5	Fair			1	0.65	0.62	0.03	0.763	35	41	35	6	0.06	1.2	0.84			
	Shri Yogeshwari Building	1.5	Good			7	6.67	6.63	0.04	0.745	35	41	35	6	0.06	1.2	0.82			
	Om Photo Studio	1.5	Fair			7	6.65	6.61	0.04	0.785	35	41	35	6	0.06	1.2	0.87			
	ICFAI college	1.5	Good			3	2.67	2.62	0.05	0.766	35	41	35	6	0.06	1.2	0.85			
	Anand Electriacs	1.5	Good			6	5.7	5.67	0.03	0.663	35	41	35	6	0.06	1.2	0.72			
	Komalvar Traders	1.5	Good			3	2.68	2.65	0.03	0.703	35	41	35	6	0.06	1.2	0.77			
	Kotwar Niwas	1.5	Good			5	4.78	4.74	0.04	0.525	35	41	35	6	0.06	1.2	0.56			
	Universal Video House	1.5	Good			7	6.72	6.67	0.05	0.666	35	41	35	6	0.06	1.2	0.73			
	Ramachandra Complex	1.5	Good			5	4.75	4.71	0.04	0.585	35	41	35	6	0.06	1.2	0.63			
	Rajyog Bhavan	1.5	Good			3	2.68	2.65	0.03	0.703	35	41	35	6	0.06	1.2	0.77			
	Sagar Tent Works	1.5	Good			7	6.77	6.73	0.04	0.545	35	41	35	6	0.06	1.2	0.58			
	Kamdhenu Traders	1.5	Good			2	1.7	1.66	0.04	0.685	35	41	35	6	0.06	1.2	0.75			
	K.G.N.Matan Shop	1.5	Good			5	4.79	4.76	0.03	0.483	35	41	35	6	0.06	1.2	0.51			
	Indian Oil Petrol Pump	1.5	Good			3	2.76	2.72	0.04	0.565	35	41	35	6	0.06	1.2	0.61	0.83	0.19	1.21
Location : Road 40 Bhagya Nagar to Yashwant College To Rly Station (2 Lane)																				
	Sagar Jewellers	0.9	Good			2	1.72	1.68	0.04	0.645	35	49	43	14	0.14	1.2	0.61			
	Assistant Enginner MSEB	0.9	Good			5	4.68	4.63	0.05	0.746	35	49	43	14	0.14	1.2	0.73			
	Hotel Shivshankar	0.9	Good			3	2.71	2.67	0.04	0.665	35	49	43	14	0.14	1.2	0.63			
	Pharmacy College Nanded	0.9	Good			7	6.62	6.58	0.04	0.845	35	49	43	14	0.14	1.2	0.85			
	Saundarya Beauty Parlour	0.9	Good			4	3.6	3.57	0.03	0.863	35	49	43	14	0.14	1.2	0.87			
	Radhika Niwas	0.9	Good			1	0.64	0.61	0.03	0.783	35	49	43	14	0.14	1.2	0.77			
	Lokhande Niwas	0.9	Good			6	5.62	5.59	0.03	0.823	35	49	43	14	0.14	1.2	0.82			
	Nagajuna School	0.9	Good			2	1.67	1.63	0.04	0.745	35	49	43	14	0.14	1.2	0.73			
	Savitribai Fule KanyaSchool	0.9	Good			7	6.6	6.57	0.03	0.863	35	49	43	14	0.14	1.2	0.87			
	Shanti Niketan	0.9	Good			5	4.61	4.58	0.03	0.843	35	49	43	14	0.14	1.2	0.84			
	Study Well Classes	0.9	Fair			3	2.75	2.72	0.03	0.563	35	49	43	14	0.14	1.2	0.51			
	Hrushikesh General Stores	0.9	Good			1	0.67	0.63	0.04	0.745	35	49	43	14	0.14	1.2	0.73			
	District Public Health Laboratory	0.9	Good			6	5.72	5.67	0.05	0.666	35	49	43	14	0.14	1.2	0.63			
	Polytechnic College	0.9	Good			7	6.69	6.67	0.02	0.660	35	49	43	14	0.14	1.2	0.62			
	College with Potential for Expansion	0.9	Good			5	4.65	4.62	0.03	0.763	35	49	43	14	0.14	1.2	0.75			
	yashwant College	0.9	Good			2	1.61	1.57	0.04	0.865	35	49	43	14	0.14	1.2	0.87			
	Law College	0.9	Good			6	5.71	5.68	0.03	0.643	35	49	43	14	0.14	1.2	0.60			
	Boys Hostel	0.9	Good			1	0.59	0.56	0.03	0.883	35	49	43	14	0.14	1.2	0.89			
	Maharashtra Pan Shop	0.9	Fair			3	2.51	2.48	0.03	1.043	35	49	43	14	0.14	1.2	1.08			
	Yashwant Mahavidyalay	0.9	Good			1	0.64	0.61	0.03	0.783	35	49	43	14	0.14	1.2	0.77			
		0.9	Good			5	4.75	4.71	0.04	0.585	35	49	43	14	0.14	1.2	0.53			
	Institute of Technology	0.9	Good			4	3.78	3.76	0.02	0.480	35	49	43	14	0.14	1.2	0.41			
	Paitwar Papers	0.9	Fair			3	2.51	2.47	0.04	1.065	35	49	43	14	0.14	1.2	1.11			
	Chandgiram & Sons	0.9	Fair			7	6.6	6.56	0.04	0.885	35	49	43	14	0.14	1.2	0.89			
	Balaji & Sons	0.9	Good			2	1.74	1.7	0.04	0.605	35	49	43	14	0.14	1.2	0.56			
		0.9	Fair			8	7.58	7.53	0.05	0.946	35	49	43	14	0.14	1.2	0.97			
	Rainbow Fast Food	0.9	Fair			5	4.54	4.49	0.05	1.026	35	49	43	14	0.14	1.2	1.06			
	Shantaram Swimming Pool	0.9	Fair/Good			3	2.61	2.57	0.04	0.865	35	49	43	14	0.14	1.2	0.87			
	Govind singh Stadium	0.9	Fair			1	0.51	0.46	0.05	1.086	35	49	43	14	0.14	1.2	1.13			
	District Sport Committee	0.9	Fair			4	3.53	3.49	0.04	1.025	35	49	43	14	0.14	1.2	1.06			
	ANURUPAMA Analysis	0.9	Good			6	5.63	5.59	0.04	0.825	35	49	43	14	0.14	1.2	0.82			

**Annexure 3.5
RBD Analysis**

Direction	Test Location		Pavement Condition at			Dial gauge readings (mm)				Deflection (mm)	Pavement temperature (deg. Celcius)	Pavement temperature (deg. Celcius) & time of observation	Ambient Temperature (deg. Celcius)	Temperature Difference	Temperature Correction Factor	Seasonal Correction Factor	Corrected Deflection (mm)	Average Deflection (for each road section)	Std. Deviation	Characteristic Deflection-Dc (mm)
	Chainage (km)	Offset from pavement edge (m)	Surfacing (Good/Fair/Poor/Very Poor)	Crack Type	Rut Depth (mm)	Initial	Intermediate	Final	(Di-Df)											
	Saibaba Oil Depot	0.9	Good			7	6.64	6.61	0.03	0.783	35	49	43	14	0.14	1.2	0.77			
	Print Well Printing Press	0.9	Good			2	1.6	1.57	0.03	0.863	35	49	43	14	0.14	1.2	0.87			
	Sainath Raswanti	0.9	Fair			4	3.52	3.48	0.04	1.045	35	49	43	14	0.14	1.2	1.09			
	Shramsafalya Niwas	0.9	Good/Fair			1	0.5	0.47	0.03	1.063	35	49	43	14	0.14	1.2	1.11			
	National Sample Survey	0.9	Fair			5	4.48	4.45	0.03	1.103	35	49	43	14	0.14	1.2	1.16			
	Gopal Kirana	0.9	Fair			3	2.57	2.53	0.04	0.945	35	49	43	14	0.14	1.2	0.97			
	Kavita Tea House	0.9	Fair			4	3.55	3.52	0.03	0.963	35	49	43	14	0.14	1.2	0.99			
	Evershine Hotel	0.9	Fair			7	6.51	6.48	0.03	1.043	35	49	43	14	0.14	1.2	1.08	0.84	0.20	1.23
Location : Road 41 (2 Lane)																				
	Saisagar Clinic	0.9	Good			6	5.81	5.78	0.03	0.443	35	38	32	3	0.03	1.2	0.50			
	50M ahead Milk Dairy	0.9	Good			9	8.84	8.81	0.03	0.383	35	38	32	3	0.03	1.2	0.42			
	Sagar Clinic	0.9	Good			4	3.78	3.75	0.03	0.503	35	38	32	3	0.03	1.2	0.57			
	50M ahead	0.9	Good			3	2.81	2.77	0.04	0.465	35	38	32	3	0.03	1.2	0.52			
		0.9	Good			1	0.79	0.75	0.04	0.505	35	38	32	3	0.03	1.2	0.57			
		0.9	Good/Fair			5	4.72	4.68	0.04	0.645	35	38	32	3	0.03	1.2	0.74			
		0.9	Fair			2	1.65	1.6	0.05	0.806	35	38	32	3	0.03	1.2	0.93			
		0.9	Fair			2	1.63	1.59	0.04	0.825	35	38	32	3	0.03	1.2	0.95			
		0.9	Fair			5	4.61	4.58	0.03	0.843	35	38	32	3	0.03	1.2	0.98			
		0.9	Fair			3	2.66	2.63	0.03	0.743	35	38	32	3	0.03	1.2	0.86			
		0.9	Fair			7	6.65	6.62	0.03	0.763	35	38	32	3	0.03	1.2	0.88			
		0.9	Fair			1	0.62	0.58	0.04	0.845	35	38	32	3	0.03	1.2	0.98			
		0.9	Fair			4	3.69	3.68	0.01	0.640	35	38	32	3	0.03	1.2	0.73			
	Dhangaon Phata	0.9	Fair			1	0.61	0.58	0.03	0.843	35	38	32	3	0.03	1.2	0.98			
	Sahar Colony	0.9	Good			2	1.7	1.67	0.03	0.663	35	38	33	3	0.03	1.2	0.76			
	50m Ahead	0.9	Fair			5	4.66	4.63	0.03	0.743	35	38	33	3	0.03	1.2	0.86			
		0.9	Good			3	2.78	2.75	0.03	0.503	35	38	33	3	0.03	1.2	0.57			
		0.9	Good			4	3.72	3.69	0.03	0.623	35	38	33	3	0.03	1.2	0.71			
	Shri Niwas Nagar	0.9	Good			2	1.65	1.61	0.04	0.785	35	38	33	3	0.03	1.2	0.91			
	50m Ahead	0.9	Good			5	4.78	4.74	0.04	0.525	35	38	33	3	0.03	1.2	0.59			
		0.9	Good			2	1.73	1.69	0.04	0.625	35	38	33	3	0.03	1.2	0.71			
		0.9	Good			1	0.77	0.74	0.03	0.523	35	38	33	3	0.03	1.2	0.59			
		0.9	Good			5	4.73	4.69	0.04	0.625	35	38	33	3	0.03	1.2	0.71			
		0.9	Good			2	1.79	1.77	0.02	0.460	35	38	33	3	0.03	1.2	0.52			
		0.9	Good			7	6.67	6.64	0.03	0.723	35	38	33	3	0.03	1.2	0.83			
	Gautmeshwar Mandir	0.9	Good			4	3.72	3.69	0.03	0.623	35	38	33	3	0.03	1.2	0.71			
	Seema Oil Industries	0.9	Good			2	1.78	1.75	0.03	0.503	35	38	33	3	0.03	1.2	0.57			
	Royal Auto	0.9	Good			1	0.69	0.66	0.03	0.683	35	38	33	3	0.03	1.2	0.78			
	Perfect Motor Garage	0.9	Good			3	2.74	2.71	0.03	0.583	35	37	32	2	0.02	1.2	0.68			
	Dharma Kata	0.9	Good			1	0.7	0.65	0.05	0.706	35	37	32	2	0.02	1.2	0.82			
	50m Ahead	0.9	Good			4	3.68	3.65	0.03	0.703	35	37	32	2	0.02	1.2	0.82			
		0.9	Good			7	6.77	6.74	0.03	0.523	35	37	32	2	0.02	1.2	0.60			
		0.9	Good			5	4.74	4.71	0.03	0.583	35	37	32	2	0.02	1.2	0.68			
		0.9	Good			2	1.69	1.66	0.03	0.683	35	37	32	2	0.02	1.2	0.80			
	Shri Datta Automobiles	0.9	Good			3	2.62	2.59	0.03	0.823	35	37	32	2	0.02	1.2	0.96			
	Roshan Transport Company	0.9	Good			3	2.78	2.75	0.03	0.503	35	37	32	2	0.02	1.2	0.58	0.73	0.16	1.05
Location : Road 42 Shivaji Statue Dhanegaon To Old Godavari Bridge (2 Lane)																				
	Shivaji Statue	0.9	Good			1	0.64	0.61	0.03	0.783	35	37	31	2	0.02	1.2	0.92			
	50m Ahead	0.9	Good			3	2.67	2.63	0.04	0.745	35	37	31	2	0.02	1.2	0.87			
		0.9	Good			5	4.69	4.66	0.03	0.683	35	37	31	2	0.02	1.2	0.80			
		0.9	Good			2	1.71	1.68	0.03	0.643	35	37	31	2	0.02	1.2	0.75			
	Ajay Tractors	0.9	Good			4	3.65	3.62	0.03	0.763	35	37	31	2	0.02	1.2	0.89			
	Prince Marketing	0.9	Good			7	6.7	6.66	0.04	0.685	35	37	31	2	0.02	1.2	0.80			
	Sudhakar Polimers Ltd	0.9	Good			2	1.75	1.72	0.03	0.563	35	37	31	2	0.02	1.2	0.65			
	Swastik Transport Agencies	0.9	Good			3	2.64	2.61	0.03	0.783	35	37	31	2	0.02	1.2	0.92			
	Marathwada Industries	0.9	Good			7	6.68	6.65	0.03	0.703	35	37	31	2	0.02	1.2	0.82			
	Sanjay Saw Mill	0.9	Good			4	3.72	3.68	0.04	0.645	35	37	31	2	0.02	1.2	0.75			
	Chatrapati Shivaji Maharaj	0.9	Good			1	0.66	0.63	0.03	0.743	35	37	31	2	0.02	1.2	0.87			
	Suprine Gold Pipes	0.9	Good			2	1.74	1.71	0.03	0.583	35	37	31	2	0.02	1.2	0.68			
	50m Ahead	0.9	Good			5	4.77	4.74	0.03	0.523	35	37	31	2	0.02	1.2	0.60			
	ANSU Shri Shri Mandir Dhanegaon	0.9	Good			7	6.73	6.7	0.03	0.603	35	37	31	2	0.02	1.2	0.70			

**Annexure 3.5
RBD Analysis**

Direction	Test Location		Pavement Condition at			Dial gauge readings (mm)				Deflection (mm)	Pavement temperature (deg. Celcius)	Pavement temperature (deg. Celcius) & time of observation	Ambient Temperature (deg. Celcius)	Temperature Difference	Temperature Correction Factor	Seasonal Correction Factor	Corrected Deflection (mm)	Average Deflection (for each road section)	Std. Deviation	Characteristic Deflection-Dc (mm)
	Chainage (km)	Offset from pavement edge (m)	Surfacing (Good/Fair/Poor/Very Poor)	Crack Type	Rut Depth (mm)	Initial	Intermediate	Final	(Di-Df)											
	Ultratech Cement	0.9	Good			7	6.69	6.67	0.02	0.660	35	37	31	2	0.02	1.2	0.77			
	Vyankatesh & Company	0.9	Good			4	3.72	3.69	0.03	0.623	35	37	31	2	0.02	1.2	0.72			
	Police Chowki Wajegaon	0.9	Good			2	1.77	1.74	0.03	0.523	35	37	31	2	0.02	1.2	0.60			
	Mahindra Showroom Godava	0.9	Good			1	0.78	0.75	0.03	0.503	35	37	31	2	0.02	1.2	0.58			
	50m Ahead	0.9	Good			5	4.68	4.65	0.03	0.703	35	37	31	2	0.02	1.2	0.82			
	Bridge Starting	0.9	Good			2	1.8	1.77	0.03	0.463	35	37	31	2	0.02	1.2	0.53			
	Bridge Starting	0.9	Good			3	2.77	2.74	0.03	0.523	35	37	31	2	0.02	1.2	0.60	0.74	0.12	0.98

