

Risk Profile for - Surat Airport, Surat, Gujarat, India

Summary

Surat Airport, Surat, Gujarat, India(21° 7' 12" N, 72° 44' 38" E) lies in Pincode 395007 of district of Surat state of Gujarat, Republic of India. Expected sum insured at this location is INR 60000,000. Following is the summary of this location's risk profile.

Seismic zone:	3
Soil Condition:	Fill to Shallow Bay Mud
Soil Susceptibility:	High
Distance to Coast:	2.52 km
Elevation:	8 m
River Basin:	Тарі
Risk Score Earthquake:	6.95
Risk Score Flood:	8.86
Risk Score Cyclone:	3.13
Composite Risk Score:	Extreme



Location Map

RMSI Cropalytics Proprietary Risk Score: RMSI Cropalytics has developed proprietary hazard risk scores for Flood, Earthquake and Cyclone. The scores explain the hazard extremity on a five point scale from Negligible to Extreme. The scores for each of the peril are explained below:

Earthquake Risk Score	Flood Risk Score	Cyclone Risk Score
0.00 to 5.00 - Negligible	0.00 to 2.50 - Negligible	0.00 to 3.00 - Negligible
5.00 to 6.00 - Low	2.50 to 4.40 - Low	3.00 to 5.00 - Low
6.00 to 7.00 - Medium	4.40 to 6.50 - Medium	5.00 to 7.00 - Medium
7.00 to 8.50 - High	6.50 to 8.60 - High	7.00 to 8.50 - High
8.50 to 10.0 - Extreme	8.60 to 10.0 - Extreme	8.50 to 10.0 - Extreme

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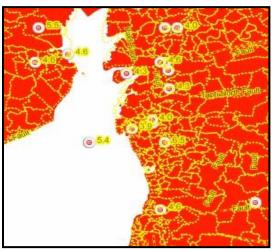
Earthquake

Historical Epicenters of magnitude(mw) greater than 5 within 100 km

#	Epicenter Name	Year	Maximum Magnitude	Distance (km)
1	Saurashtra		6.5	29.8
2	Saurashtra	1935	5.4	38.1
3	Saurashtra	1970	5.2	69.5
4	Saurashtra	1970	5.2	69.5
5	Saurashtra	1971	5.2	69.5

Major Active Faults within 100 Km

#	Fault Name	Fault Type	Distance(km)
1	Fault	Neotectonic fault	7.1
2	Fault	Neotectonic fault	47.7
3	Tapti North Fault	Neotectonic fault	58.2
4	Paldi Fault	Neotectonic fault	75.3
5	Fault	Neotectonic fault	77.6
6	Fault	Fault involving basement	77.7
7	West coast Fault	Neotectonic fault	86.0
8	Son - Narmada Fault	Neotectonic fault	86.3
9	Fault	Fault involving basement	89.8



Historical Epicenters and Faults overlaid on the Seismic Zone

Legend :



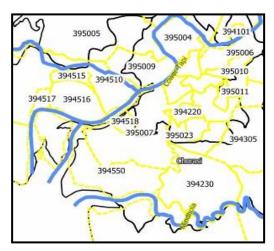
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Flood

	Distance from Major Rivers within 25 km			
#	Basin	Sub-Basin	Stream	Distance (km)
1	Тарі	Tapi lower	Lower Tapi	2.6
2	Bhatsol	Bhatsol and others	Mindhola	6.5
3	Тарі	Tapi lower	Tokri	19.5
4	Bhatsol	Bhatsol and others	Purna	19.9

Historical Rainfall in the Basin (in mm)

Return Period	1 day	3 day	5 day	7 day
2 years	95.0	159.0	196.0	227.0
5 years	141.0	253.0	291.0	315.0
10 years	188.0	319.0	360.0	401.0
27.5 years	228.0	369.0	450.0	537.0
55 years	242.0	520.0	536.0	572.0
110 years	242.0	535.0	640.0	655.0



Major Rivers within 25 km

Legend :

- Pincode Boundary
 - River





Area under Flood Zones		
Historical Flood Zones		Modeled Flood Zones
#	Event	This Location does not falls under the
1	August 11th, 2006 - Surat, Gujarat	any Modeled Flood Zones.



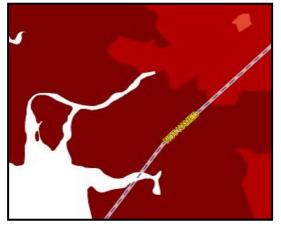
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Cyclone

Historical Landfall Points within 25 Km				
#			Distance (km)	
1	NOT NAMED	Devsar	997.4	13.1

List of Class 3 and Higher Cyclones within 50 Km

There has been no cyclonic event in the recent past at this location.



Cyclone Tracks and Historical Landfall locations overlaid on the Distance to Coast

Legend :



Historical Landfall

Cyclone Tracks





Expected Return Period Losses against Sum Insured: 60000,00,000			
Return Period	Return Period Earthquake (INR)		Cyclone (INR)
25 Year	5,100,746.00	2,763,400,000.00	223,574.60
50 Year	9,245,166.00	2,810,300,000.00	408,647.00
100 Year	19,133,185.00	2,851,900,000.00	873,111.00
250 Year 208,605,460.00		2,888,200,000.00	1,835,868.00
500 Year	378,245,900.00	2,919,400,000.00	3,377,200.00

Inputs for Loss :

Floors :	0
Occupancy :	Industrial
Structure Type:	Concrete Frame
Building Height:	Low Rise
Ground Floor Elevation :	0.5
Basement :	false
Building Sum Insured :	300000000
Content Sum Insured :	200000000
BI Sum Insured :	100000000





Disclaimer:

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