

India FloodRisk TM

Risk Assessment Report



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1 Executive Summary

1.1 Exposure

- ABC General Insurance Company Ltd.'s portfolio across India has a total combined sum insured of INR 2,635,011,400 Millions.
- Gujarat, Maharashtra, Karnataka, and Uttar Pradesh contribute about 50% of the sum insured.
- Out of the total sum insured, the share of Residential is about 7%, Commercial about 5%, Industrial about 60%, and Engineering about 27%.
- ABC General Insurance Company Ltd.'s data was broadly classified into Steel, RCC, and masonry. RMSI has further categorized this data into low-rise, medium-rise, and high-rise using RMSI's India Exposure model giving the followinsg structural type combinations RCC (low, medium, and high-rise), Masonry (low and medium rise), and steel (low, medium, and high rise).

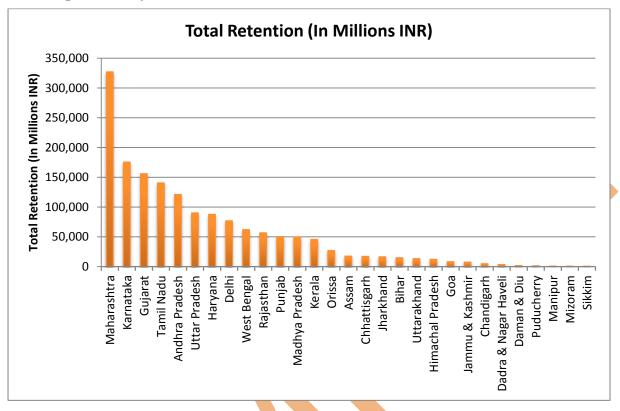
1.2 Losses

- There is a 0.4% probability of having losses exceeding 5,219,856 INR Millions of the total sum insured.
- There is a 0.2% probability of having losses exceeding 5,515,001 INR Millions of the total sum insured.
- There is a 4% probability of having losses exceeding 2,022,950 INR Millions of the total sum insured.



2 Exposure

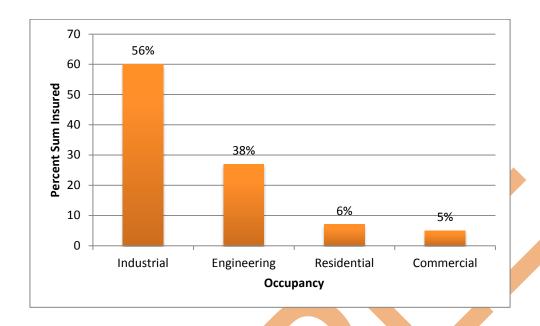
2.1 Exposure by State



#	State	Total Sum Insured (in Million INR)	Percentage Share of Total
1	Maharashtra	606,073,800	23.00
2	Gujarat	308,574,200	11.71
3	Karnataka	235,065,600	8.92
4	Tamil Nadu	189,416,200	7.19
5	Uttar Pradesh	160,963,200	6.11
6	Andhra <mark>Prad</mark> esh	141,530,000	5.37
7	Haryana	106,580,600	4.04
8	West Bengal	101,655,200	3.86
9	Orissa	97,190,400	3.69
10	Chhattisgarh	87,207,600	3.31
11	Jharkhand	75,796,200	2.88
12	Rajasthan	66,856,600	2.54
13	Delhi	66,677,600	2.53
14	Madhya Pradesh	60,349,400	2.29
15	Bihar	56,249,200	2.13
16	Assam	54,176,800	2.06

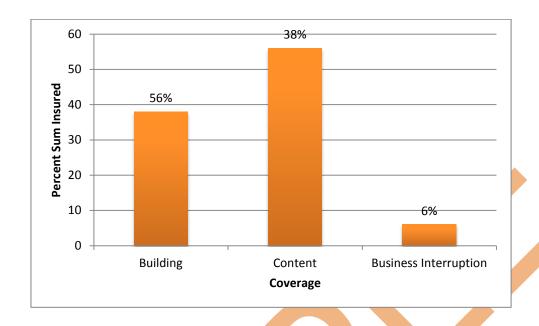
#	State	Total Sum Insured (in Million INR)	Percentage Share of Total
17	Punjab	44,809,800	1.70
18	Kerala	30,621,600	1.16
19	Himachal Pradesh	26,380,000	1.00
20	Goa	22,903,400	0.87
21	Uttarakhand	20,448,200	0.78
22	Jammu & Kashmir	18,612,200	0.71
23	Puducherry	13,957,800	0.53
24	Dadra and Nagar Haveli	13,846,000	0.53
25	Tripura	7,851,000	0.30
26	Daman & Diu	4,388,000	0.17
27	Sikkim	3,518,000	0.13
28	Chandigarh	3,377,200	0.13
29	Nagaland	3,021,200	0.11%
30	Meghalaya	3,002,400	0.11
31	Manipur	1,078,200	0.04
32	Mizoram	1,037,600	0.04
33	Arunachal Pradesh	854,800	0.03
34	Andaman Nicobar Islands	779,400	0.03
	Total	2,635,011,400	100

2.2 Exposure by Occupancy



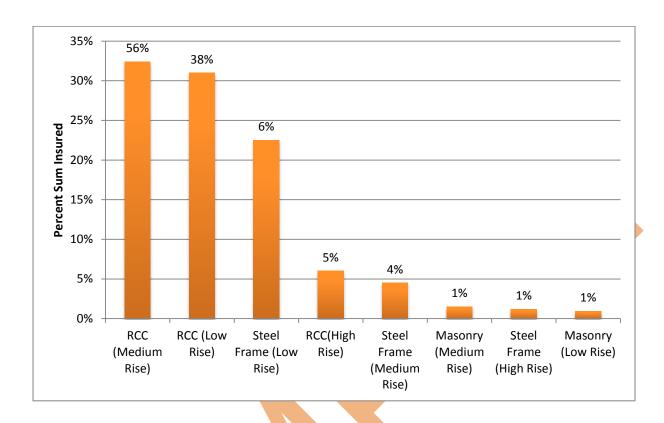
Occupancy	Total Sum Insured (in Million INR)	Percentage Share of Total
Residential	184,450,798	7
Commercial	131,750,570	5
Industrial	1,581,006,840	60
Engineering	711,453,078	27
Total	2,635,011,400	100

2.3 Exposure by Coverage



Coverage	Sum Insured (In Million INR)	Percentage Share of Total
Building	1,001,304,332	38
Content	1,475,606,384	56
Business Interruption	158,100,684	6
Total	2,635,011,400	100

2.4 Exposure by Structural Type

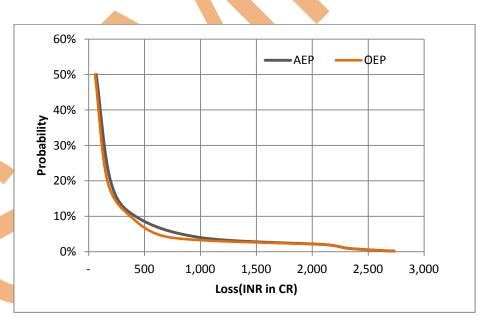


Structural Type	Sum Insured(In Million INR)
RCC (Medium Rise)	853,743,694
RCC (Low Rise)	816,063,031
Steel Frame (Low Rise)	592,877,565
RCC(High Rise)	158,100,684
Steel Frame (Medium Rise)	118,575,513
Masonry (Medium Rise)	39,525,171
Steel Frame (High Rise)	31,620,137
Masonry (Low Rise)	24,505,606
Total	2,635,011,400

3 Losses

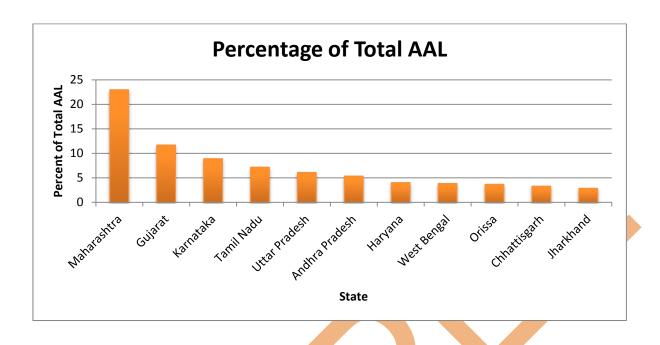
3.1 Portfolio Level Return Period Losses

		Loss (In Crores INF	R) Without Deductible
Critical Probability (%)	Return Period	Aggregate Exceedance Probability (AEP)	Occurrence Exceedance Probability (OEP)
50.00%	2	135,076	115,514
20.00%	5	394,246	337,155
10.00%	10	845,704	755,626
4.00%	25	2,022,950	1,491,832
2.00%	50	4,286,841	4,288,032
1.00%	100	4,666,370	4,666,027
0.40%	250	5,219,856	5,219,856
0.20%	500	5,515,001	5,515,001
Average Annual Loss		476,430	424,749



LEC for Retention Sum insured without deductible

3.2 Summary of AAL by State



State	Total Sum Insured (in million INR)	Average Annual Loss (in Mn INR) (AAL)	Percentage of Total AAL
Maharashtra	606,073,800	93,822	23
Gujarat	308,574,200	60,049	11.71
Karnataka	235,065,600	71,166	8.92
Tamil Nadu	189,416,200	69,972	7.19
Uttar Pra des h	160,963,200	51,158	6.11
Andhra Pradesh	141,530,000	46,568	5.37
Haryana	106,580,600	36,772	4.04
West Bengal	101,655,200	15,721	3.86
Orissa	97,190,400	10,839	3.69
Chhattisgarh	87,207,600	7,263	3.31
Jharkhand	75,796,200	3,697	2.88
Rajasthan	66,856,600	1,249	2.54
Delhi	66,677,600	1,099	2.53
Madhya Pradesh	60,349,400	873	2.29

State	Total Sum Insured (in million INR)	Average Annual Loss (in Mn INR) (AAL)	Percentage of Total AAL
Bihar	56,249,200	589	2.13
Assam	54,176,800	444	2.06
Punjab	44,809,800	158	1.7
Kerala	30,621,600	157	1.16
Himachal Pradesh	26,380,000	114	1
Goa	22,903,400	110	0.87
Uttarakhand	20,448,200	59	0.78
Jammu & Kashmir	18,612,200	132	0.71
Puducherry	13,957,800	128	0.53
Dadra and Nagar Haveli	13,846,000	174	0.53
Tripura	7,851,000	0	0.3
Daman & Diu	4,388,000	0	0.17
Sikkim	3,518,000	0	0.13
Chandigarh	3,377,200	0	0.13
Nagaland	3,021,200	0	0.11%
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Manipur	1,078,200	0	0.04
Mizoram	1,037,600	0	0.04
Arunachal Pradesh	854,800	0	0.03
Andaman Nicobar Islands	779,400	0	0.03
Total	2,635,011,400	476,430	100

