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This information was submitted by Minister of State (Independent Charge) Earth Sciences Dr. Jitendra Singh in Rajya Sabha on 5th February 2026.

Annexure-1

Annual average track forecast errors (km) during 2016-2025:

Year	12-hr	24-hr	36-hr	48-hr	60-hr	72-hr	84-hr	96-hr	108-hr	120-hr
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2016	59.7	96.1	129.6	185.1	238	291.7	330.4	379.5	344.1	438.3
2017	43.7	61.4	87.2	107.6	190.1	189.6	292.5	304.2	158.7	159.7
2018	55.4	87.5	99.2	124.2	131.2	134.3	165.8	189	220.8	247.6
2019	41	68.6	87.8	103.7	120.4	148.6	177.7	217.8	261.3	337.5
2020	50.3	72.5	76.4	85.3	89.1	111.4	105.5	88.8	86.3	93.3
2021	43.7	62.9	82.6	91.4	105.7	164	248	15.3		
2022	42.3	77.5	108	167.1	204.2	315.3	378.2	535.3	576.5	
2023	48.3	76.5	98.4	120.7	138.8	147.2	157.3	176.8	181.5	224.8
2024	37.6	65.6	76.9	83.5	100.3	114	70	153		
2025	42	80	102	120	169	204	245	129		

Annual average intensity forecast errors (kt) during 2016-2025:

Year	12-hr	24-hr	36-hr	48-hr	60-hr	72-hr	84-hr	96-hr	108-hr	120-hr
2016	4.6	7.2	8.5	8.3	9.7	11.2	14	18.4	9.5	5
2017	4.3	5.7	10.8	12.4	9	8.2	9	7.8	5	3.7
2018	4.8	8.2	12	11.6	12.8	12.9	12.9	13.8	13.3	9.2
2019	5.5	8.7	11.7	12.7	14.7	17.4	19.3	19.8	19.9	21.2
2020	5	7.1	8.7	8.8	9.7	9.3	10.8	13.9	8.7	4.3
2021	3.5	6.2	8.6	9.5	9.3	10.8	18.8	21		
2022	2.4	3.8	4.2	4	3.8	5	5.6	6.7	10.3	
2023	3.7	7.3	9.1	10.7	11.3	12.5	13.9	16.5	15.3	18.3
2024	2.3	4.1	5.2	5.3	4.7	5	5	5		
2025	1.7	3.1	4.7	2.7	3.5	3.9	2.9	1		

$$1 \text{ kt} = 1.85 \text{ kmph}$$

Annual average landfall point errors during 2016-2025:

Year	12-hr	24-hr	36-hr	48-hr	60-hr	72-hr	84-hr	96-hr	108-hr	120-hr
2016	7.8	14.1	71.6	127.2	129.2	180.1	253.2	286	403.4	
2017	19.1	50.4	29.8	59						
2018	26.7	44	42.1	40.3	56.4	67.6				
2019	8.9	27.1	21.9	34.7	15	37.2				
2020	10	17.6	53.5	69.7	27.7	43	77	47	47	
2021	6.8	16.4	10.6	19.8	97	158.5				
2022	16.5	14.8	21.7	24.5	20.2	4.5	4.9			
2023	13.0	17.0	31.2	48.8	65.8	65.7	66.6	71.1	9.1	
2024	5.4	14.4	19	24	18	2.2	1.1	1.1		
2025	71	76	113	82	113	121	128			

Annexure-2

State/UT-wise Number of Deaths due to Cyclones During 2014-2023

[illegible]

6	Goa	0	0	0	0	0	0	0	0	0	0
7	Gujarat	6	0	0	0	0	3	0	40	0	0
8	Haryana	0	0	0	0	0	0	0	0	0	0
9	Himachal Pradesh	0	0	0	0	0	0	0	0	0	0
10	Jharkhand	3	0	0	2	3	0	0	0	0	0
11	Karnataka	0	0	0	0	0	1	2	0	0	0
12	Kerala	0	0	0	113	1	0	0	0	0	0
13	Madhya Pradesh	2	1	0	0	0	0	0	0	0	0
14	Maharashtra	2	0	3	0	1	0	2	72	0	0
15	Manipur	0	0	0	0	0	3	0	0	0	0
16	Meghalaya	0	0	0	2	0	0	0	1	2	0
17	Mizoram	0	0	0	0	0	0	0	0	0	0
18	Nagaland	0	0	0	1	0	0	0	0	0	0
19	Odisha	0	0	0	0	6	14	0	0	0	0
20	Punjab	0	0	0	0	0	1	0	0	0	0
21	Rajasthan	0	0	0	0	0	0	0	0	0	0
22	Sikkim	0	0	0	0	0	0	0	0	0	0
23	Tamil Nadu	0	0	2	6	95	0	0	0	0	0
24	Telangana	0	0	0	0	0	0	0	0	0	0
25	Tripura	0	0	0	0	2	0	0	0	0	0
26	Uttar Pradesh	7	13	0	3	5	11	0	0	0	0

27	Uttarakhand	0	0	0	0	0	0	4	0	0	0
28	West Bengal	0	0	0	0	0	0	22	2	2	0
	Total number of deaths (in 28 States)	62	15	15	133	124	33	35	115	9	1
29	A & N Islands	0	0	0	0	0	0	0	2	0	1
30	Chandigarh	0	0	0	0	0	0	0	0	0	0

31	D&N Haveli and Daman&Diu @+	0	0	0	0	0	0	0	1	0	0
32	Delhi UT	0	0	0	0	0	0	0	0	0	0
33	Jammu & Kashmir @*	0	0	0	0	1	0	2	0	0	0
34	Ladakh @	-	-	-	-	-	-	0	0	0	0
35	Lakshadweep	0	0	0	0	0	0	0	0	0	0
36	Puducherry	0	0	0	0	0	0	0	0	0	0
	Total Number of Deaths (in 8 UTs)	0	0	0	0	1	0	2	3	0	1
	Total deaths in the country	62	15	15	133	125	33	37	118	9	2
	Number of Cyclones that made landfall	1	0	1	0	3	2	4	3	1	1

Source of data regarding number of deaths: National Crime Records Bureau (NCRB), Ministry of Home Affairs (MHA).

As per the data provided by the State/UTs

‘+’ Combined data of erstwhile D & N HAVELI AND DAMAN & DIU UT during 2014-2019

‘*’ Data of erstwhile JAMMU & KASHMIR State, including LADAKH, during 2014-2019

‘@’ Data of the newly created Union Territory

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