

GOVERNMENT OF INDIA  
MINISTRY OF FISHERIES, ANIMAL HUSBANDRY AND DAIRYING  
DEPARTMENT OF FISHERIES

**LOK SABHA**

STARRED QUESTION No. 313  
TO BE ANSWERED ON 10<sup>TH</sup> AUGUST, 2021

**Impact of Coastal Erosion on Fisheries**

**\*313: ADV. ADOOR PRAKASH:**

Will the Minister of FISHERIES, ANIMAL HUSBANDRY AND DAIRYING

मत्स्यपालन, पशुपालन और डेयरी मंत्री be pleased to state:

- (a) whether the Government is aware of the struggle of fishermen families due to fast rising coastal erosion in the country;
- (b) whether the Government sought report from the States to review the impact of coastal erosion and if so, the details thereof;
- (c) the areas which are most affected with coastal erosion, State-wise;
- (d) whether the Government is aware that coastal areas in the State of Kerala are worst hit and majority of shoreline has been eroded and if so, the details thereof; and
- (e) whether the Government will consider special assistance to the State for effective preventive measures in this regard and if so, the details thereof?

**ANSWER**

**THE MINISTER OF FISHERIES, ANIMAL HUSBANDRY AND DAIRYING**

**(PARSHOTTAM RUPALA)**

(a) to (e): A Statement is placed on the Table of the House.

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**Statement referred to in reply to the Lok Sabha Starred Question No. \*313 put in by Adv. Adoor Prakash, Member of Parliament for answer on 10<sup>th</sup> August, 2021 regarding Impact of Coastal Erosion on Fisheries**

(a) to (e): Some stretches of India's shoreline are subject to varying degree of erosion due to natural causes or anthropogenic activities. The coastal erosion does impact coastal communities residing in the erosion prone areas including fishermen communities.

The National Centre for Coastal Research (NCCR) an attached office of Ministry of Earth Sciences monitors shoreline changes along Indian Coast. NCCR has carried out a national shoreline change assessment mapping for Indian coast using 28 years of satellite data from 1990 to 2018 along nine coastal States and two Union Territories(UTs)to provide information for coastal management strategy. Based on the report of NCCR, about 32% of the coastline is under varying degree of erosion (low, moderate or high), 27% is of accreting nature and the remaining 41% is in a stable state. The state-wise shoreline changes along the Indian coast is at **Annexure-I**. The State-wise list of areas affected by coastal erosion including Kerala is at **Annexure-II**.As per NCCR studies, 41% of coastline of Kerala is subject to varying degree of erosion, 31% is stable and 21% is accreting. Further, the National Centre for Sustainable Coastal Management under the Ministry of Environment, Forests and Climate Change and the Central Water Commission under the Ministry of Jal Shakti also undertake studies on shoreline changes/coastal erosion and its impact.

Planning and execution of anti-sea erosion measures are undertaken by the maritime States and UTs as per their own priority and from their own resources. The role of Union Government is technical, advisory and catalytic in nature. Ministry of Earth Sciences through NCCR and National Institute of Ocean Technology has extended technical support in design of anti-sea erosion measures to Government of Kerala.

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## Annexure-I

Statement referred to in reply to the Lok Sabha Starred Question No. \*313 put in by Adv. Adoor Prakash, Member of Parliament for answer on 10<sup>th</sup> August, 2021. State wise shoreline changes along the Indian coast (1990 to 2018) as per National Centre for Coastal Research, Ministry of Earth Sciences.

Coastal States/UTs	Length (km)	Erosion		Stable		Accretion	
		Km	%	Km	%	Km	%
Gujarat, including Daman & Diu	1701.78	447.98	26	920.64	54	333.16	20
Maharashtra	739.57	162.02	22	503.49	68	74.06	10
Goa	139.64	26.82	19	93.72	67	19.1	14
Karnataka	313.02	74.34	24	156.78	50	81.9	26
Kerala	592.96	245.26	41	220.3	37	127.4	21
Tamil Nadu	991.47	402.94	41	370.39	37	218.14	22
Puducherry	41.66	23.14	56	15.12	36	3.4	8
Andhra Pradesh	1027.58	289.36	28	250.22	24	488	48
Odisha	549.5	140.72	26	128.77	23	280.02	51
West Bengal	534.35	323.07	60	76.4	14	134.88	25
<b>Total</b>	<b>6631.53</b>	<b>2135.65</b>	<b>32</b>	<b>2735.83</b>	<b>41</b>	<b>1760.06</b>	<b>27</b>

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**Annexure-II**

**Statement referred to in reply to the Lok Sabha Starred Question No. \*313 put in by Adv. Adoor Prakash, Member of Parliament for answer on 10<sup>th</sup> August, 2021. The State wise list of affected areas by coastal erosion as per National Centre for Coastal Research, Ministry of Earth Sciences.**

<b>SI No</b>	<b>State</b>	<b>District</b>	<b>Location</b>
1	Gujarat	Kachchh	Mundra
2	Gujarat	Bhavnagar	Ghogha
3	Gujarat	Bhavnagar	Nava Ratanpar
4	Gujarat	Bhavnagar	JasparaMandva
5	Gujarat	GirSomnath	Adri
6	Gujarat	GirSomnath	Navapara
7	Gujarat	Navsari	Borsi
8	Gujarat	Navsari	Onjal
9	Maharashtra	Thane	Tarapore
10	Maharashtra	Mumbai Suburban	Gorai
11	Maharashtra	Raigarh	Shirgaon
12	Maharashtra	Raigarh	Murud
13	Maharashtra	Raigarh	Srivardhan
14	Maharashtra	Ratnagiri	Anjarle
15	Maharashtra	Ratnagiri	Dabhol
16	Maharashtra	Sindhudurg	Vengurla
17	Goa	North Goa	Keri
18	Goa	South Goa	Mobor
19	Goa	South Goa	Talpona
20	Karnataka	Uttara Kannada	Devbag
21	Karnataka	Uttara Kannada	Karwar
22	Karnataka	Uttara Kannada	Apsarakonda
23	Karnataka	Udupi	Kirimanjeshwara
24	Karnataka	Udupi	Maravanthey

25	Karnataka	Udupi	Yeramal
26	Karnataka	DakshinaKannad	Mukka
27	Karnataka	DakshinaKannad	Ullal
28	Kerala	Kasaragod	Kasarkod
29	Kerala	Kasaragod	Valiyaparamba
30	Kerala	Kozhikode	Pakkayil
31	Kerala	Kozhikode	Chettikulam
32	Kerala	Malappuram	Ariyallur
33	Kerala	Malappuram	Ponnani
34	Kerala	Alappuzha	Vettackal
35	Kerala	Alappuzha	Gurumandiram
36	Kerala	Alappuzha	Ambalapuzha
37	Kerala	Kollam	Parayakadavu
38	Kerala	Thiruvananthapuram	Kappil
39	Kerala	Thiruvananthapuram	Valiyathura
40	Tamil Nadu	Kanniyakumari	Kovalam
41	Tamil Nadu	Kanniyakumari	Muttam
42	Tamil Nadu	Kanniyakumari	Pillayarkovil
43	Tamil Nadu	Kanniyakumari	Mandakad
44	Tamil Nadu	Kanniyakumari	Vaniakudi
45	Tamil Nadu	Kanniyakumari	Midalam
46	Tamil Nadu	Kanniyakumari	Melmidalam
47	Tamil Nadu	Kanniyakumari	Putturai
48	Tamil Nadu	Thoothukudi	Tiruchchendur
49	Tamil Nadu	Thanjavur	Kilathotam
50	Tamil Nadu	Nagapattinam	Pattanachcheri
51	Puducherry	Karaikal	Kilinjimedu
52	Puducherry	Karaikal	Kasakkudimedu
53	Puducherry	Karaikal	Akkampettai
54	Tamil Nadu	Nagapattinam	Tarangambadi

55	Tamil Nadu	Nagapattinam	Kaveripattinam
56	Tamil Nadu	Villupuram	Nadukuppam
57	Tamil Nadu	Villupuram	ChinnaMudaliyarchavadi
58	Tamil Nadu	Villupuram	PeriyaMudaliyarchavadi
59	Tamil Nadu	Villupuram	Bommaiyarpalaiyam
60	Tamil Nadu	Villupuram	Chinnakakapettai
61	Tamil Nadu	Villupuram	Kalapettai
62	Tamil Nadu	Kancheepuram	Chinnakuppam
63	Tamil Nadu	Kancheepuram	Nadukuppam
64	Tamil Nadu	Kancheepuram	Periyakuppam
65	Tamil Nadu	Kancheepuram	Chinnakuppam
66	Tamil Nadu	Kancheepuram	Oyalikuppam
67	Tamil Nadu	Thiruvallur	Thiruvottiyur
68	Tamil Nadu	Thiruvallur	Kasikovilkuppam
69	Tamil Nadu	Thiruvallur	Chinnakuppam
70	Tamil Nadu	Thiruvallur	Periyakuppam
71	Andhra Pradesh	Nellore	Pulicat
72	Andhra Pradesh	Nellore	Govundapalem
73	Andhra Pradesh	Krishna	Sorlangonti
74	Andhra Pradesh	East godavari	Suryasanyanam
75	Andhra Pradesh	East godavari	Gadimoga
76	Andhra Pradesh	East godavari	Uppada
77	Andhra Pradesh	Vishakhapatnam	Chepalapada
78	Odisha	Ganjam	Ganjam Port North
79	Odisha	Jagatsingpur	Sahadabedi
80	Odisha	Kendarapara	Pentha
81	Odisha	Kendarapara	Satavaya
82	Odisha	Kendarapara	Gahiramatha
83	West Bengal	South 24 Parganas	Bulchery island
84	West Bengal	North 24 Parganas	Bhangadunr Island
85	West Bengal	South 24 Parganas	Island

86	West Bengal	South 24 Parganas	Henry Island
87	West Bengal	North 24 Parganas	Dalhousie Island
88	West Bengal	South 24 Parganas	Gobardhanpur
89	West Bengal	North 24 Parganas	Chaimari
90	West Bengal	South 24 Parganas	Baliara
91	West Bengal	North 24 Parganas	Mechva
92	West Bengal	North 24 Parganas	Bagmara
93	West Bengal	South 24 Parganas	Plot L Southernportion
94	West Bengal	South 24 Parganas	Bisalakshmipur
95	West Bengal	Medinipur	JamraShyampur
96	West Bengal	South 24 Parganas	Sagar
97	West Bengal	Medinipur	Mandarmani
98	West Bengal	Medinipur	Bhogpur

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