

GOVERNMENT OF INDIA  
MINISTRY OF MINES  
**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 2203**  
ANSWERED ON 20.03.2023

**COLLECTION OF GEOLOGICAL MAPS**

2203 #. SHRI DEEPAK PRAKASH:

Will the Minister of MINES be pleased to state:

- (a) whether the Geological Survey of India (GSI) has a comprehensive collection of geological maps of the country;
- (b) if so, the details thereof;
- (c) whether the GSI maintains the records of conservation of geologically unusual types of rocks and topographies, important fossil sites, stratigraphical sections, places where there have been distinct development in the geological area, and where there are deposits of distinct minerals; and
- (d) if so, the details thereof and if not, whether Government proposes to formulate any policy to maintain the said records?

**ANSWER**

THE MINISTER OF MINES, COAL AND PARLIAMENTARY AFFAIRS  
(SHRI PRALHAD JOSHI)

(a) & (b): Yes, Sir. Geological Survey of India (GSI) has a comprehensive collection of various geological maps. The Geological Maps on 1 : 50,000 and 1 : 2 Million scale are prepared by GSI. The maps are available in GSI Portal. GSI has also prepared a series of thematic geological maps like District Resource Map (DRM), Mineral Belt Map (MBM), Geological Quadrangle Map (GQM) etc. of various scales in Pan India level.

(c) & (d): GSI has identified 32 Geological heritage sites located in different parts of the country covering different rock monuments, fossil parks, Stratigraphical sections in order to conserve, and protect these unique and invaluable geological marvels for education and posterity and the details are at Annexure-I. GSI has recently published the interactive map on geo-tourism sites including 32 nos. of geo-heritage site of India (total 90 sites) on GSI portal <https://www.gsi.gov.in/Geotourism>. These sites exhibit imprints of varied geological processes through ages and unparalleled scenic beauty.

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**Details of Geological Heritage Sites of India identified by Geological Survey of India**

Sl. No	Geological Heritage sites in different states of India
<b>ANDHRA PRADESH</b>	
1	Bedded Barytes, Mangampeta, Cuddapah District
2	Eparchaeon Unconformity, Chittoor District
3	Natural Arch, Tirumala Hills, Chittoor District
4	Erra Matti Dibbalu between Vishakhapatnam and Bhimuniapatnam.
<b>CHATTISGARH</b>	
5	Marine Gondwana Fossil Park, Manendragarh, Sarguja District
<b>GUJARAT</b>	
6	Eddy Current Markings, Panchmahal District
<b>HIMACHAL PRADESH</b>	
7	Siwalik Fossil Park, Saketi, Sirmur District
<b>JHARKHAND</b>	
8	Plant Fossil bearing Inter-trappean beds of Rajmahal Formation, around Mandro, Sahibganj District
<b>KARNATAKA</b>	
9	Peninsular Gneiss, Lalbagh, Bangalore
10	Columnar Basaltic Lava, St Mary's Island, Udupi District
11	Pillow Lavas, Maradihalli, Chitradurga District
12	Pyroclastic Rocks, Peddapalli, Kolar District
<b>KERALA</b>	
13	Laterite, Angadipuram, Malappuram District
14	Varkala Cliff Section, Thiruvananthapuram District
<b>MAHARASHTRA</b>	
15	Lonar Lake, Buldana District
<b>NAGALAND</b>	
16	Nagahill Ophiolite Site near Pungro, Kiphire district
<b>ORISSA</b>	
17	Pillow Lava, Iron Ore Belt, Nomira, Keonjhar District
<b>RAJASTHAN</b>	
18	Nepheline Syenite, Kishangarh, Ajmer District
19	Sendra Granite, Pali District,
20	Barr Conglomerate, Pali District
21	Jodhpur Group -Malani Igneous Suite contact, Jodhpur District
22	Welded Tuff, Jodhpur District
23	Akal Fossil Wood Park, Jaisalmer District
24	Great Boundary Fault at Satur, Bundi District
25	Stromatolite Park, Bhojunda, Chittaurgarh District
26	Gossan, Rajpura – Dariba, Rajsamand District
27	Stromatolite Park, Jhamarkotra, Udaipur District
<b>SIKKIM</b>	
28	Stromatolite bearing Dolomite / Limestone Mamley, near Namchi, South District.
<b>TAMILNADU</b>	
29	National Fossil Wood Park, Tiruvakkarai, Villupuram District
30	National Fossil Wood park, Sattanur, Perambalur District
31	Charnockite, St. Thomas Mount, Chennai.
32	Karai Badlands with Cretaceous Fossils along Karai-kulakkalnattam Section, Perambalur District.