

Field Transect: CR001, A magnificent trail to Gondwana geology, nature and heritage: Satpura Basin of Central India.

Geological Significance:

- ✓ *Satpura is the western most Gondwana basins located over Central Indian Tectonic Zone (CITZ). It is old rift valley demarcated by Son-Narmada south fault and Tapti north fault and it extends over an area of vast tract south of the Narmada plains of Hoshangabad, northern Chhindwara and north-eastern Betul in Madhya Pradesh. The western margin of the basin is also marked by a fault trending NE-SW and linking the strike-slip margins.*
- ✓ *The entire sequence of Gondwana sediments ranging from Upper Carboniferous to Lower Cretaceous exposed; litho-sections of Talchir, Barakar, Motur, Bijori, Pachmari, Denwa, Bagra and Jabalpur formations will be covered along the transect route during field trip.*
- ✓ *Evidences of glacial/marine/fluviol influences and rich fossil occurrences (vertebrate/plant and Ichno fossils) well documented in Satpura Gondwana Basin.*

International Attraction:

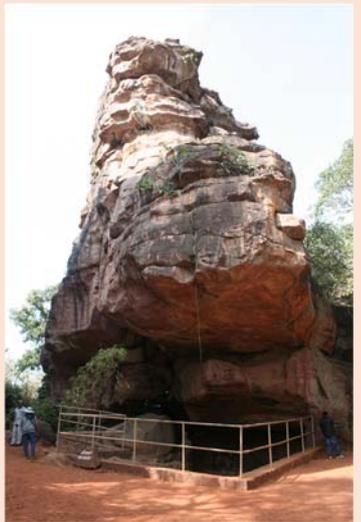
- ✓ *Satpura Gondwana basin has stunning sedimentological features, spellbound biodiversity in Satpura National park and tiger reserve.*
- ✓ *Archeological monument and UNESCO, world heritage sites like Bhimbetka, Sanchi, Bhojpur Shiva temple (King Bhoj, Parmar ynasty, 11th Century), Pandav Caves (4th-5th Century Gupta period).*
- ✓ *Pachmari hill station, Patalkot ('Horse shoe valley' with serene beauty and tribal culture)*

Duration: 5 days
Date of excursion: Pre congress
Max. participants: 20

GEOHERITAGE SITES:



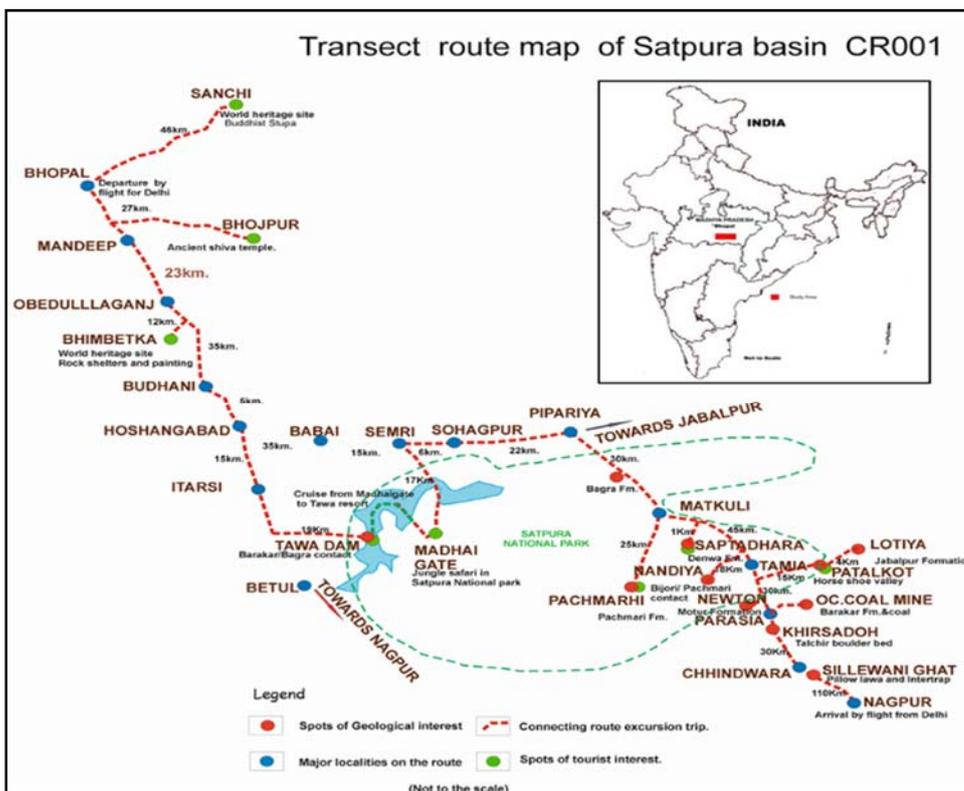
Sunset view of Dhoopgarh, Pachmarhi



Cave Paintings Of Bhimbetka



Wild life in Satpura National Park and Tiger reserve.



Geological Field Photographs:



Boulder bed in Talchir Formation exposed in Khirsadoh section.



Normal fault in coal bearing Barakar Formation in Tawa Dam section.



Sandstone-claystone association of Motur Formation in Likhawari village.



P/T Boundary at Bijori and Pachmari formational contact near Bhurabhagat.



Pebbly beds of Pachmarhi Formation near Dhoopgarh.



Cross-bed sets in sandstone of Denwa Formation exposed at 'Saptdhara'.



Clasts supported conglomerate of Bagra Formation in Tawa Dam section.



Kaolinitic sandstone-variegated claystone sequence of Jabalpur Formation in Patalkot.

Bhimbetka: A world heritage site surrounded by northern fringe of Vindhyan ranges, 46 km south of Bhopal. The rock shelters belonging to the Mesolithic to Neolithic age with vivid rock paintings in caves depicting life of cave-dwellers.

Sanchi: A world heritage site known for stupas, monasteries, temples and pillars built by the Mauryan Emperor Ashoka dating from the 3rd Century B.C. to the 12th century A. D.

Bhojpur Shiva temple: Renowned for the remains of its magnificent Shiva temple and Cyclopean dam. A huge lingam in the sanctum rises to height of 7.5 ft. with a circumference of 17.8 ft.

Pachmarhi: A verdant jewel of the Satpura's complementing the magnificence of nature, an archaeological treasure house, majestic waterfalls, Churches and cemeteries. It has endless nature spots, lush greenery, breath-taking views, mountain streams, rich and rare wildlife.

Satpura National Park: A wild life sanctuary in Satpura mountain ranges and spread over an area of 524 Sq. km, which is home to the tiger, leopard, gaur, bear, blue bull, bison and a variety of birds. Tawa-Madhai Wild life spectacular river cruise/jungle safari is part of the excursion trip.