

Field trip report



Date 3/12/2023

Location 1 Garjan



We observe alternate bands of dark and light colour. The contact between the bands is inferred to be the primary layer and the original s0. so is tightly folded, isoclinal fold. Axial plane forms schistosity.

s₀ and s₁ planes have compacted and become parallel. Only where we find the hinges, we can see the schistosity cutting the s₀, in some parts the isoclinal folds are surviving rootless. Axial Planar cleavage is observed.

The minerals present are quartz and the rock is deformed, evidently 2 deformation events are observed. The rock is metamorphic and in the range of quartzite to siltstone.

Figure 1

We observe pervasive planar structure. 2 different bands of layers not parallel but angular become progressively parallel. We can infer the generation sequence which came earlier and which came after.

Location 2

Kheraband (football field)



The prominent minerals we can observe one is ovoid equidimensional minerals equant shape. Garnet is a mineral equidimensional, isotropic, red and octahedral. So the mineral is evidently garnet. The other prominent mineral is tabular, black lens shapes, suspected to be -staurolite. Which is a Fe-mg bearing aluminous mineral.

Micaceous foliations are present.

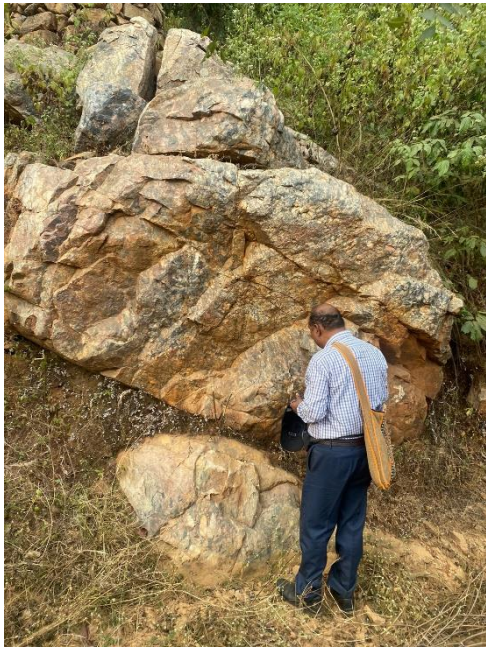
staurolite are surrounded by micaceous layer

Location 3-crop field (Kuchinda,Bonaigarh Road)



Day 1 Location 4- Near water body, Bonaigarh Road

The visible made of large rock fragments. The angular fragments are made up of various minerals and rocks. This rock is a conglomerate.



Day 2

Location 1:- South of Kuarmunda(West of road to Biramitrpur)Travel arriv



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Day 2

Location 2-Kadopani(Northern division)
division)



Day 2

Location 3-Jaharitoli(Northern division Odisha)

Day 3

Location 1-Lathi Kota bridge



Day 3

Location 2-(Chandi posh,Deoghar road sundargarh)





Day 3

Location 3-(Noamundi)

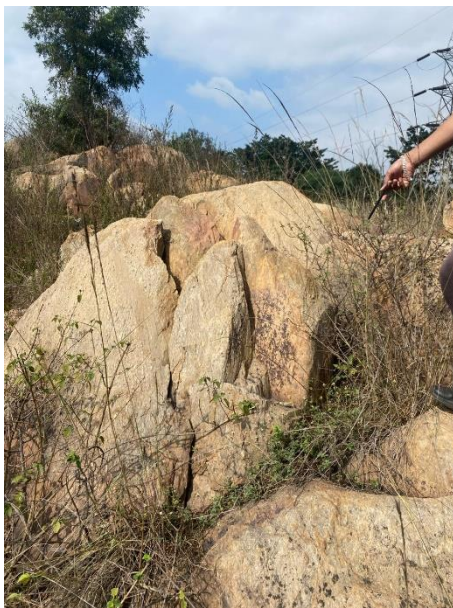
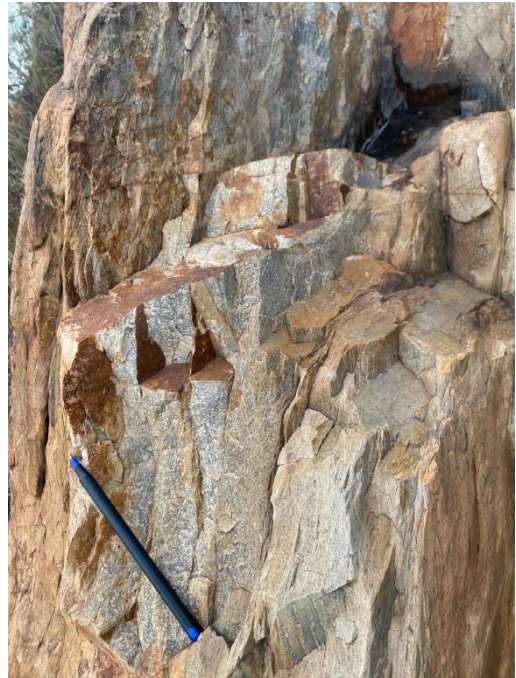
Day-3

Location 4-(Ekma Village)

Location 1-(Timna pahadi)



Day 6 Location 1(Kansbahal area,Viva Place)

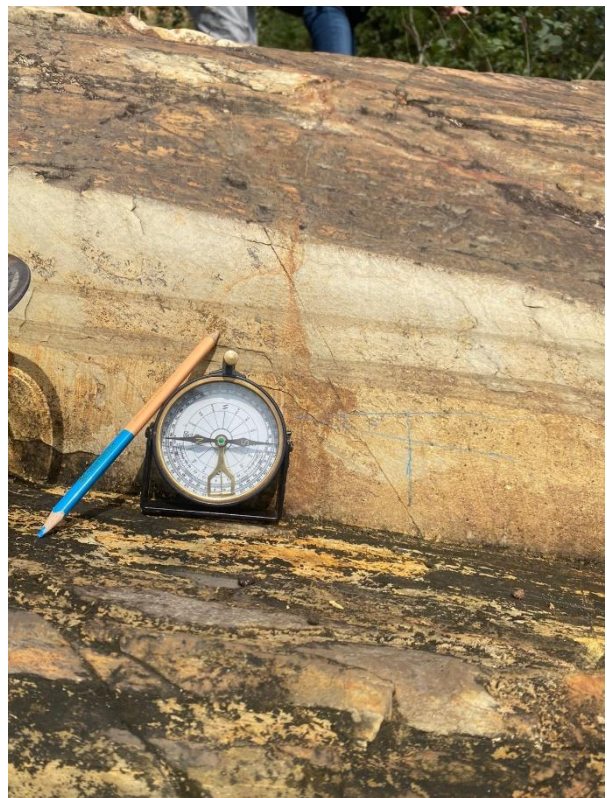




Day 7

Location 1(Mandira Dam,Near sunder garh)

Day 7



Location 2(NH - 143, Sundergarh){pillar side}



Day 8-9

Location 1(Mapping area,Kadopni,Near Jaharitoli)

Latitude :17deg24'30"N

Longitude: 22deg24'30" upper

22deg25'0" lower check

Day 10

Location: Kansbahal area {viva location}