ASSIGNMENT 2

(Unsupervised Classification)

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Aim: To download Data and perform Unsupervised classification for

a) Forest b)Agriculture

c)Water d)Build- Up area

e)Open area

Symbol used: For the above mentioned areas we used colour scheme respectively as follows:

a) Blue

b) Green

c) Brown

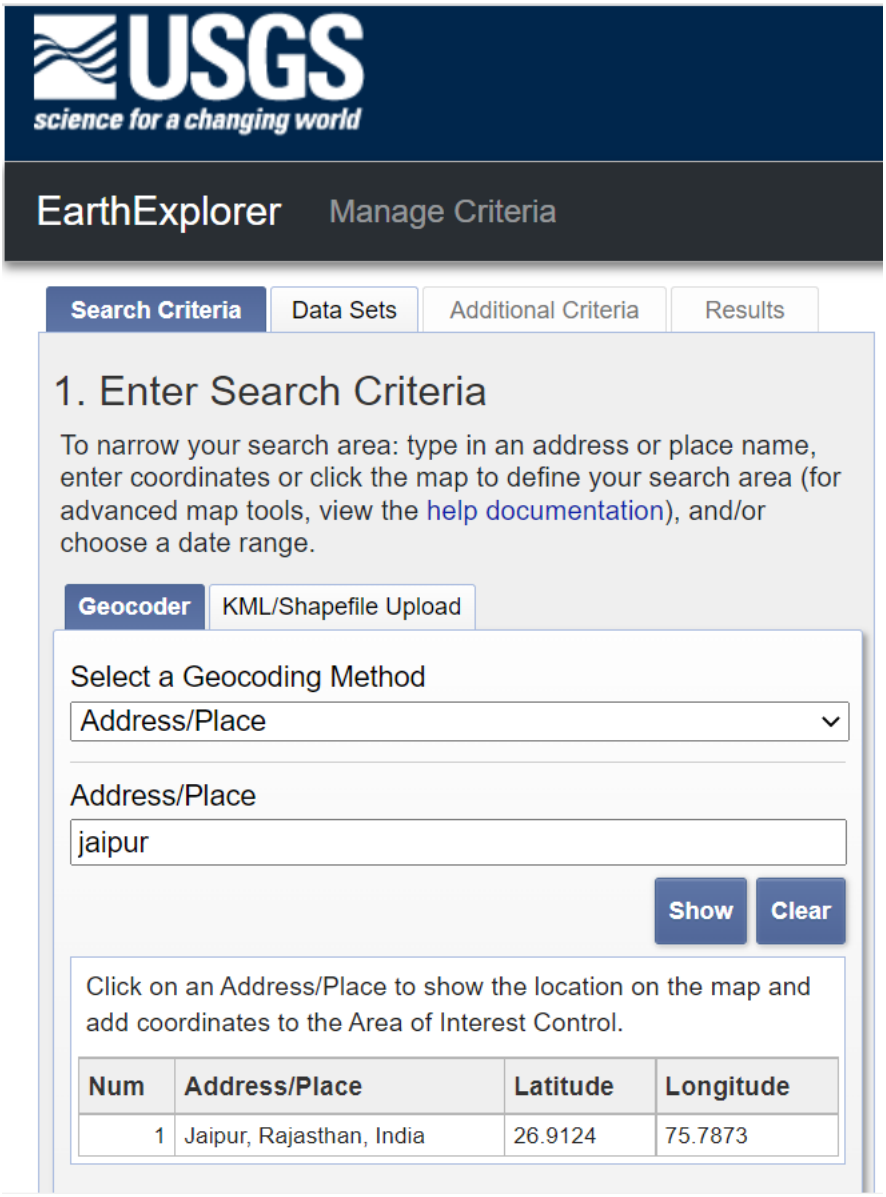
d) Light Red

e) Pink

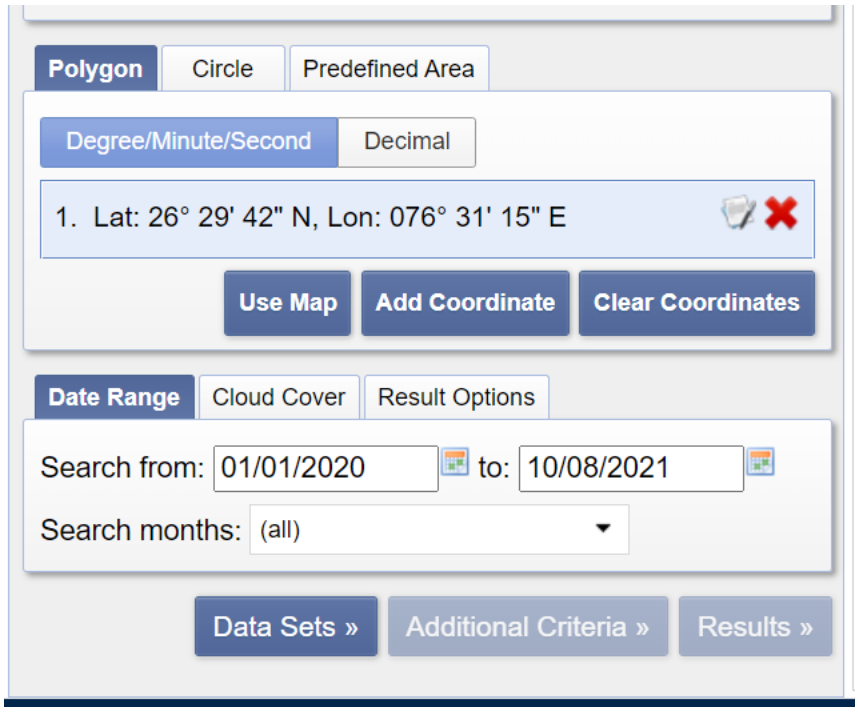
Procedure:

DATA DOWNLOAD

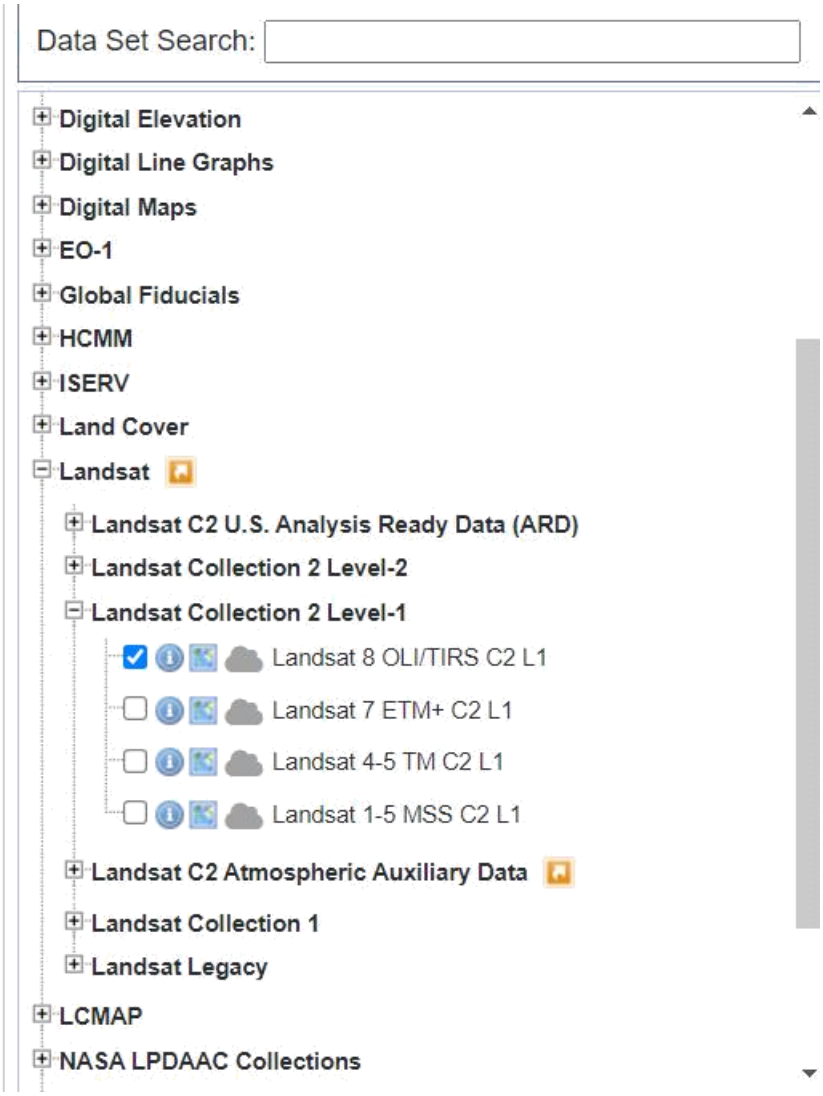
1) Search for the area in the earth explorer that we need



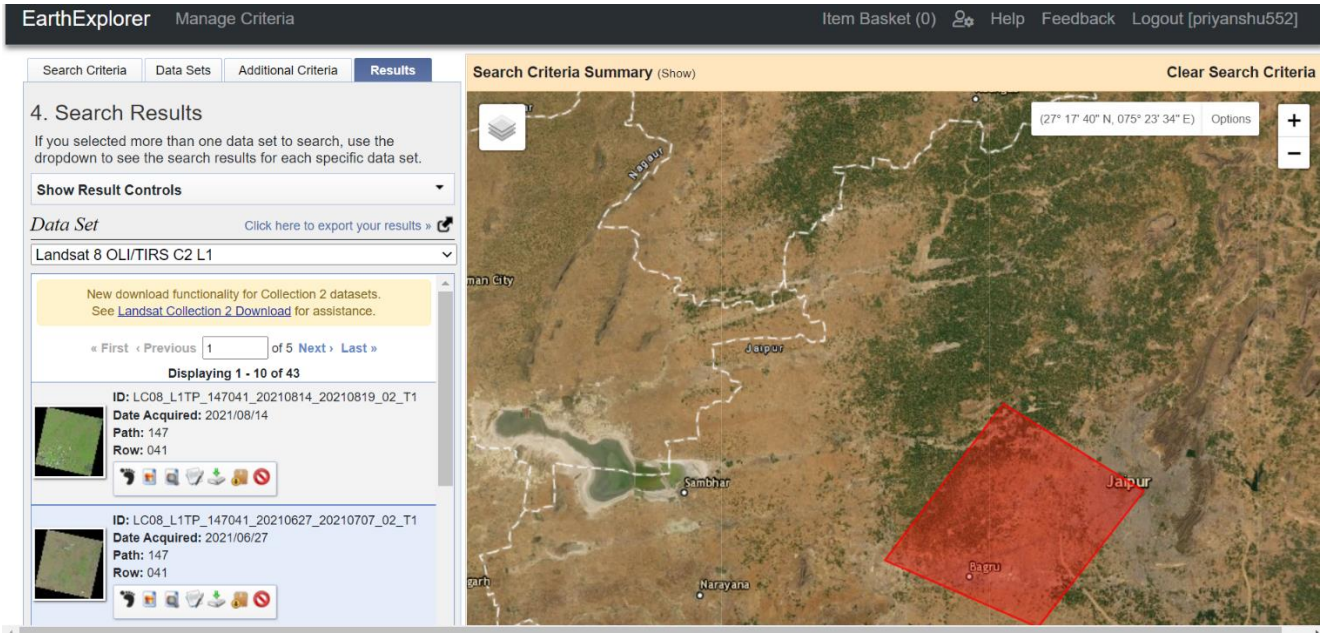
2) After finding area select the date range of the collected data also set cloud cover range and click on Data Sets



3) Select the below Data set and get results.

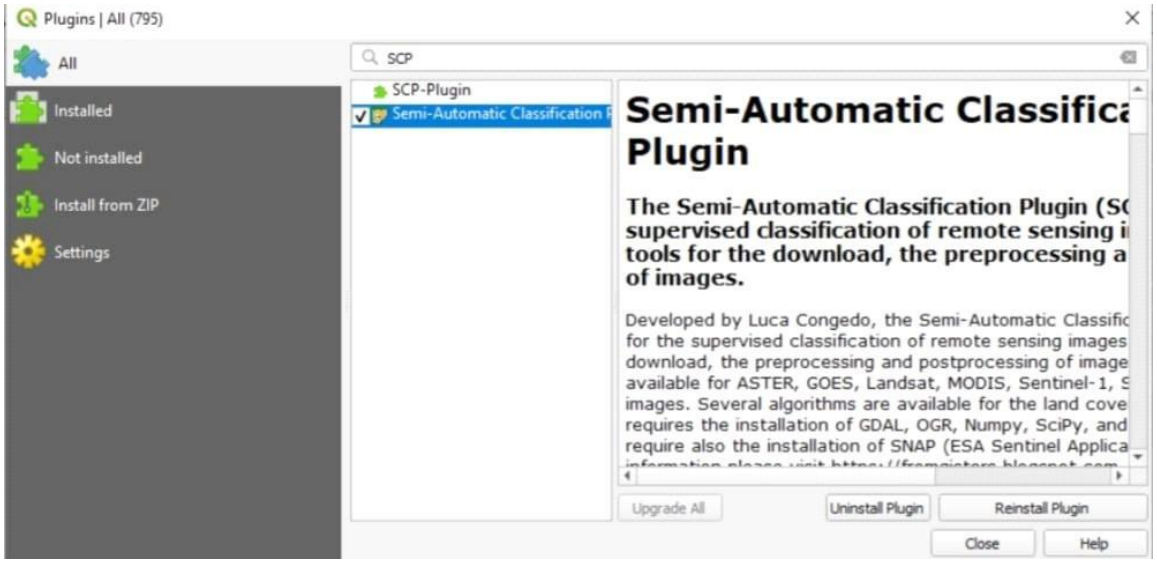


4) Look for the suitable data set by seeing it's footmark and then download it



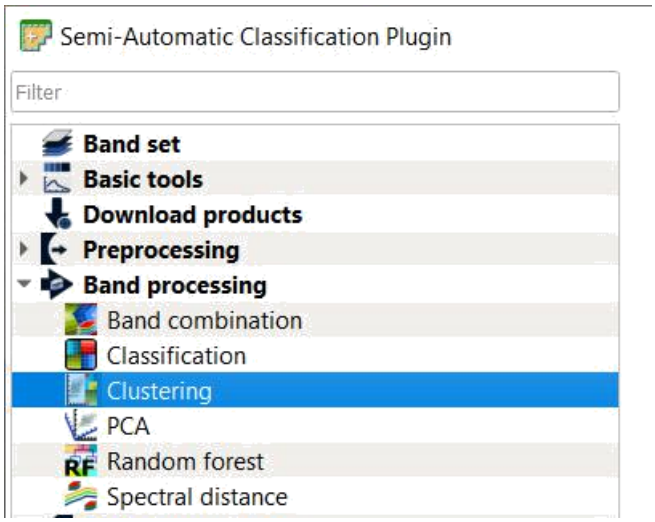
CREATING UNSUPERVISED CLASSIFICATION

1)Install the SCP plugin

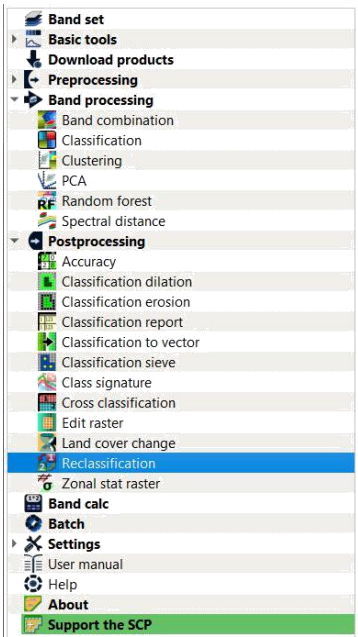


2) Unzip the downloaded file and browse the extracted files

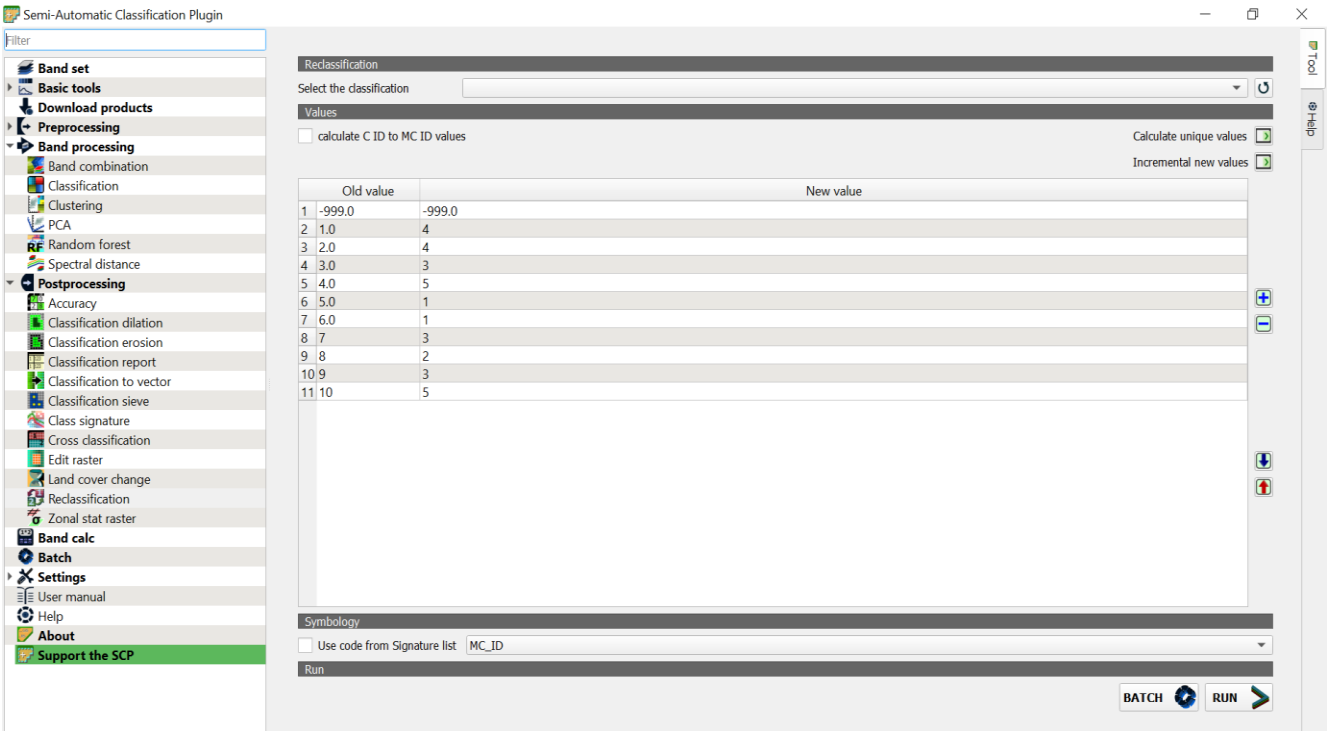
3) Cluster the above downloaded data for one unsupervised classification



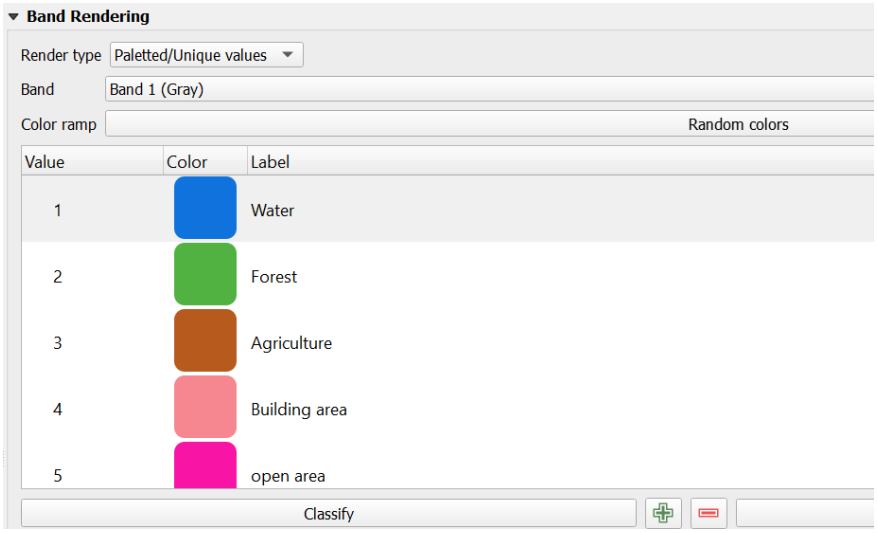
4) go in post processing select reclassification to create a different layer which will be having the data of the required, provide the new values of the band set and then run.



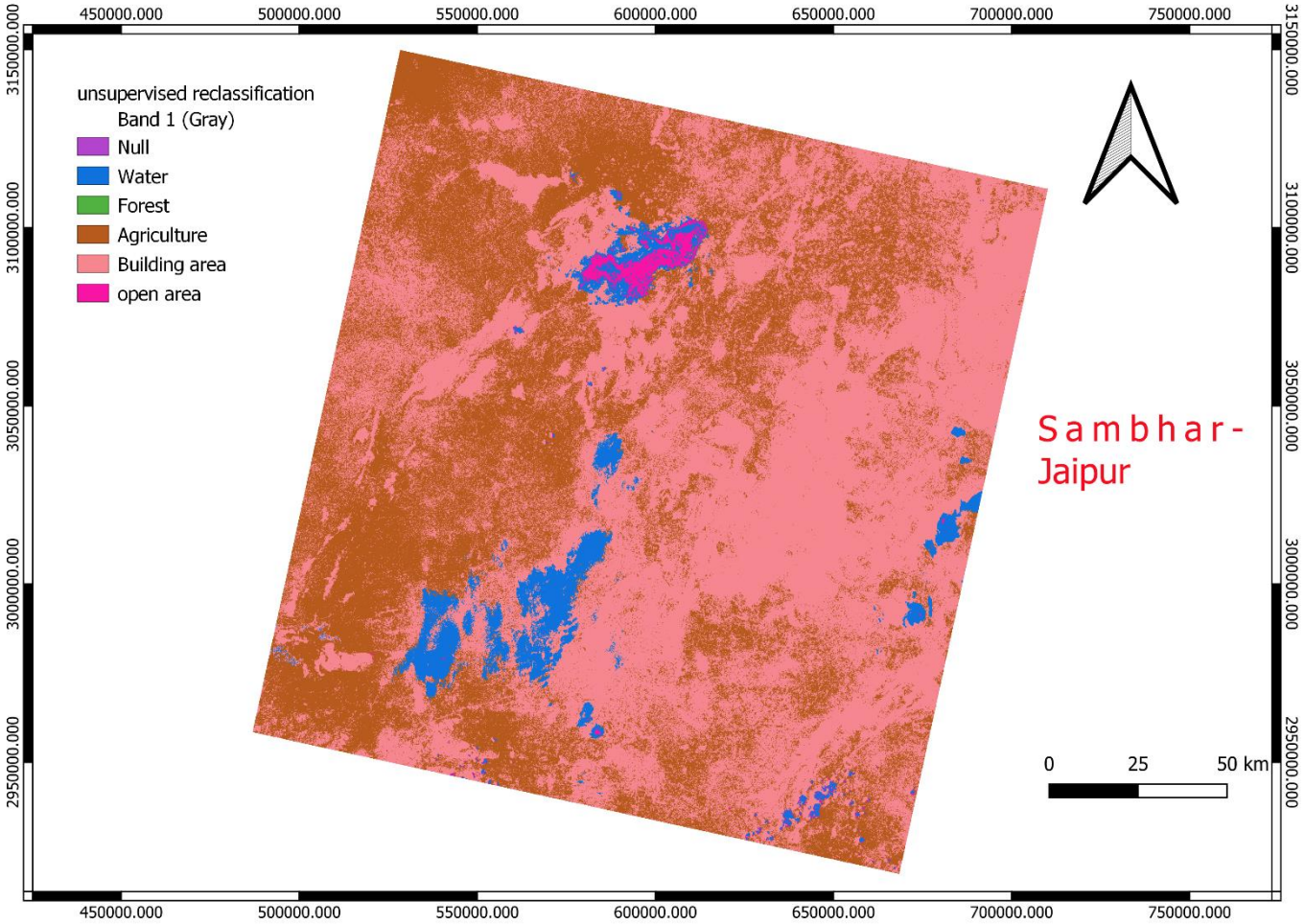
5)Change the colour of the selected bands and label them with their name



6)Print the layout (add north,grids,scale,legend,coordinates) and export it as image.



Conclusion: We created an unsupervised classification of an area whose exported image is attached below


450000.000
500000.000
550000.000
600000.000
650000.000
700000.000
750000.000
3150000.000
3100000.000
3050000.000
3000000.000
2950000.000
unsupervised reclassification
Band 1 (Gray)
Null
Water
Forest
Agriculture
Building area
open area
Sambhar-
Jaipur
0
25
50 km