

Vulnerability and Risk Analysis 40 Revenue Villages Bankura and Purulia District, WB

Study Conducted by
School of Oceanographic Studies
Jadavpur University

Under
Climate Change Adaptation Project

Implemented by



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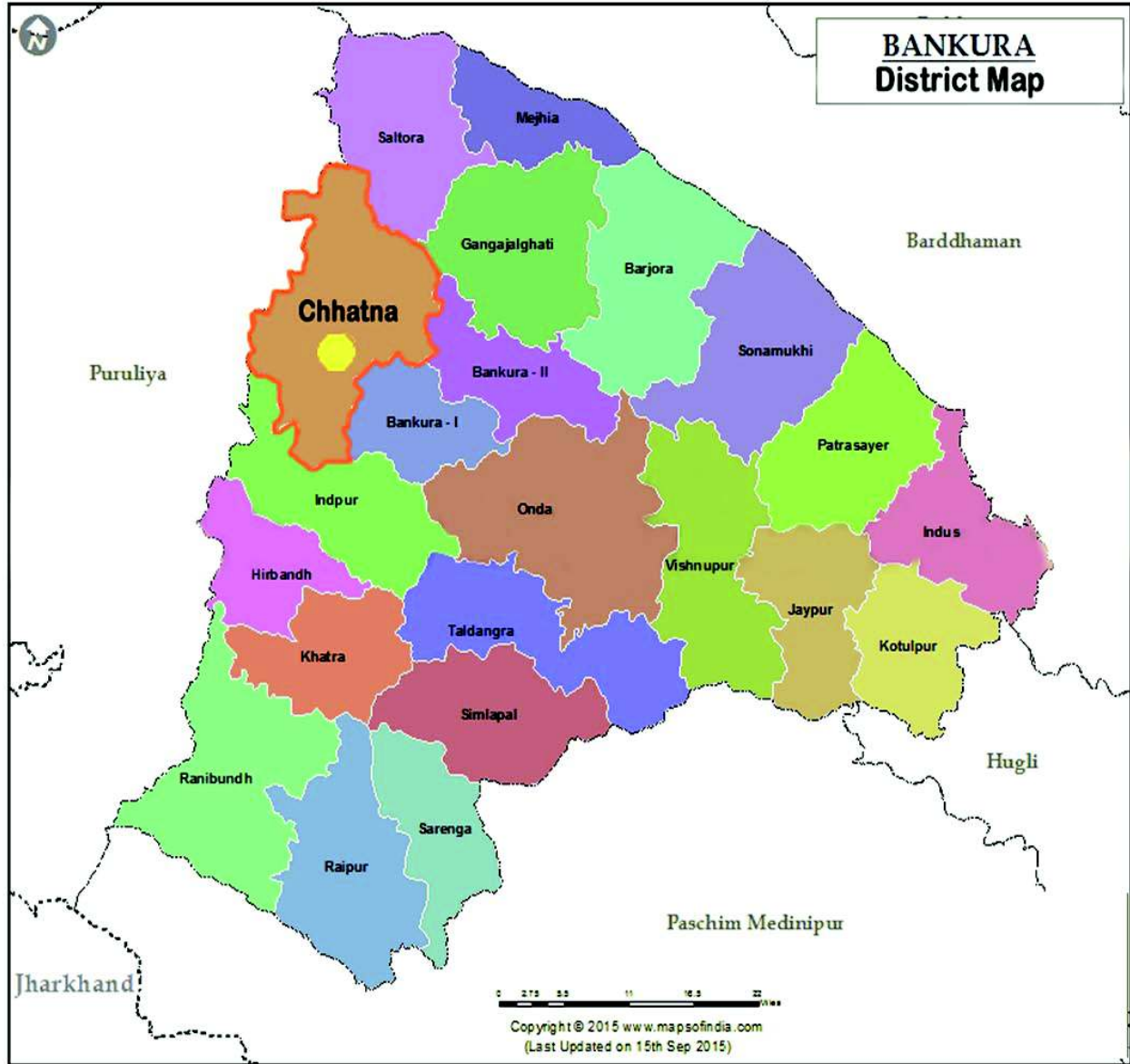


ADAPTATION FUND



NABARD

Year: 2019



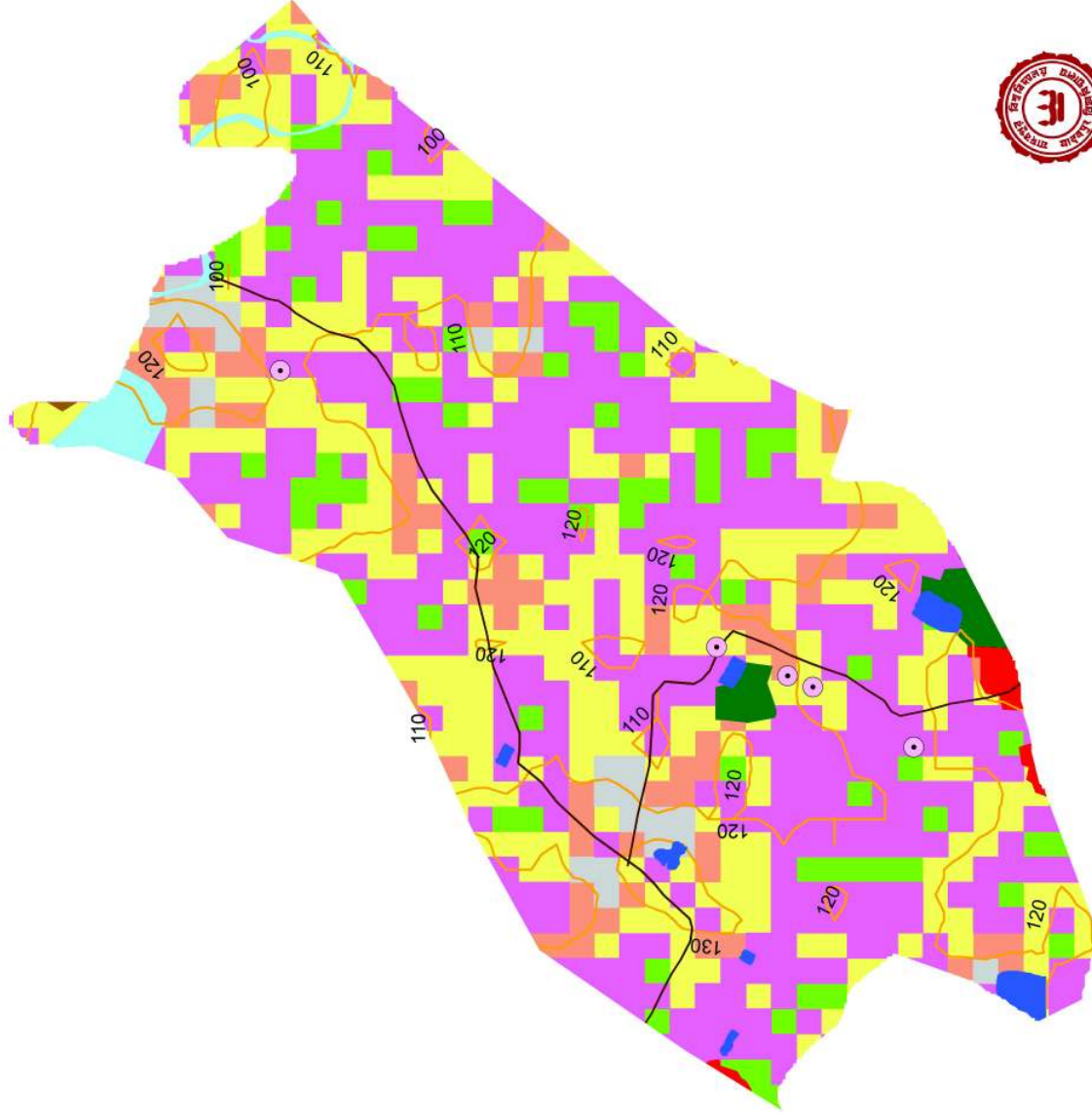
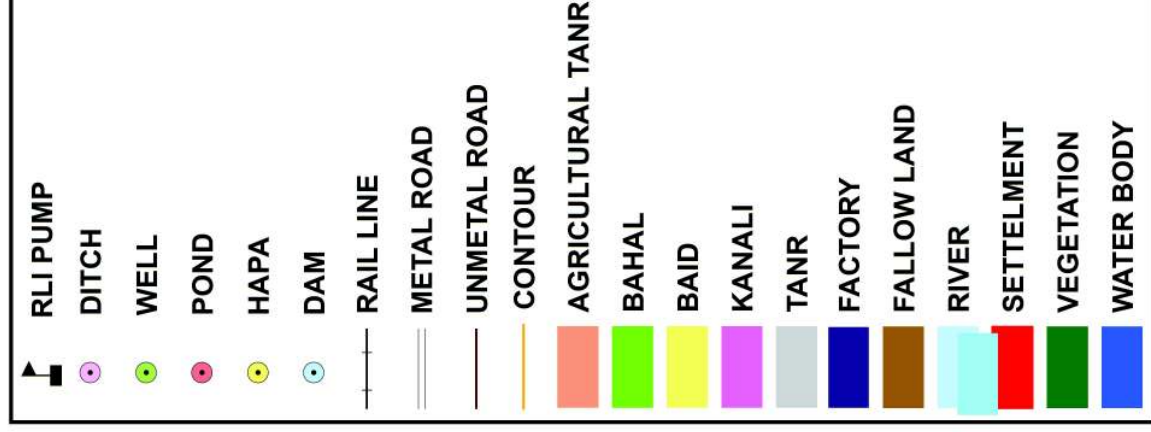
Working Villages of Bankura

86°56'30"E

86°57'0"E



BANJURYA



SCHOOL OF OCEANOGRAPHIC STUDIES
JADAVPUR UNIVERSITY

VULNERABILITY - MODERATE
RISK - VERY LOW



86°56'30"E

86°57'0"E

23°22'30"N

23°22'0"N

86°55'30"E

86°56'0"E

86°56'30"E



BENAGORIA

23°18'0"N

23°18'0"N

23°17'30"N

23°17'30"N

86°55'30"E

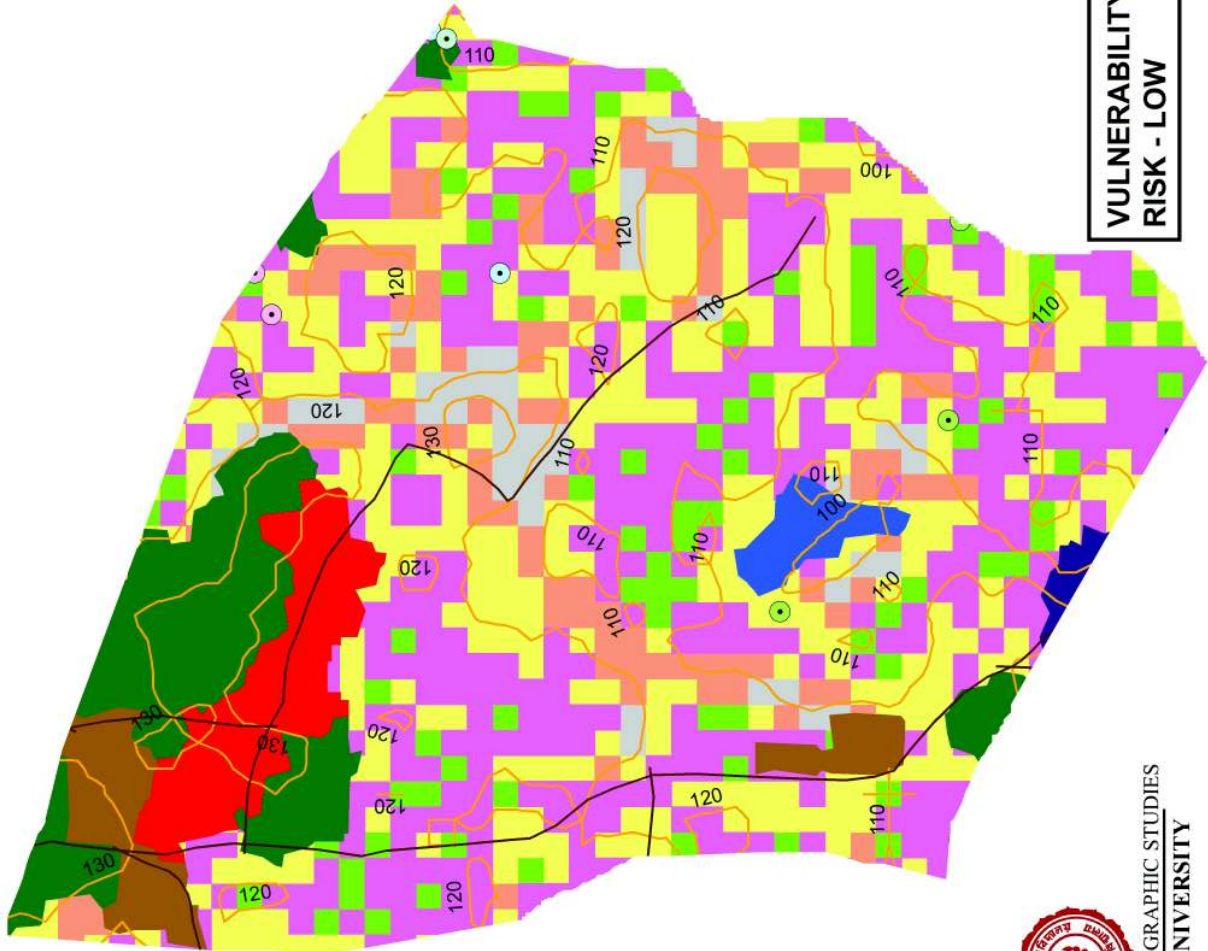
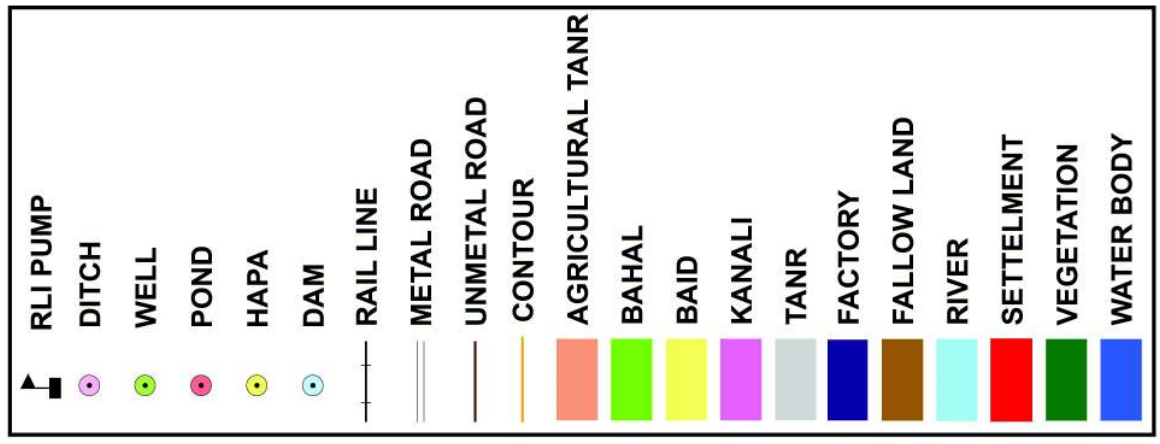
86°56'0"E

86°56'30"E



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VULNERABILITY - VERY LOW
RISK - LOW



86°55'0"E

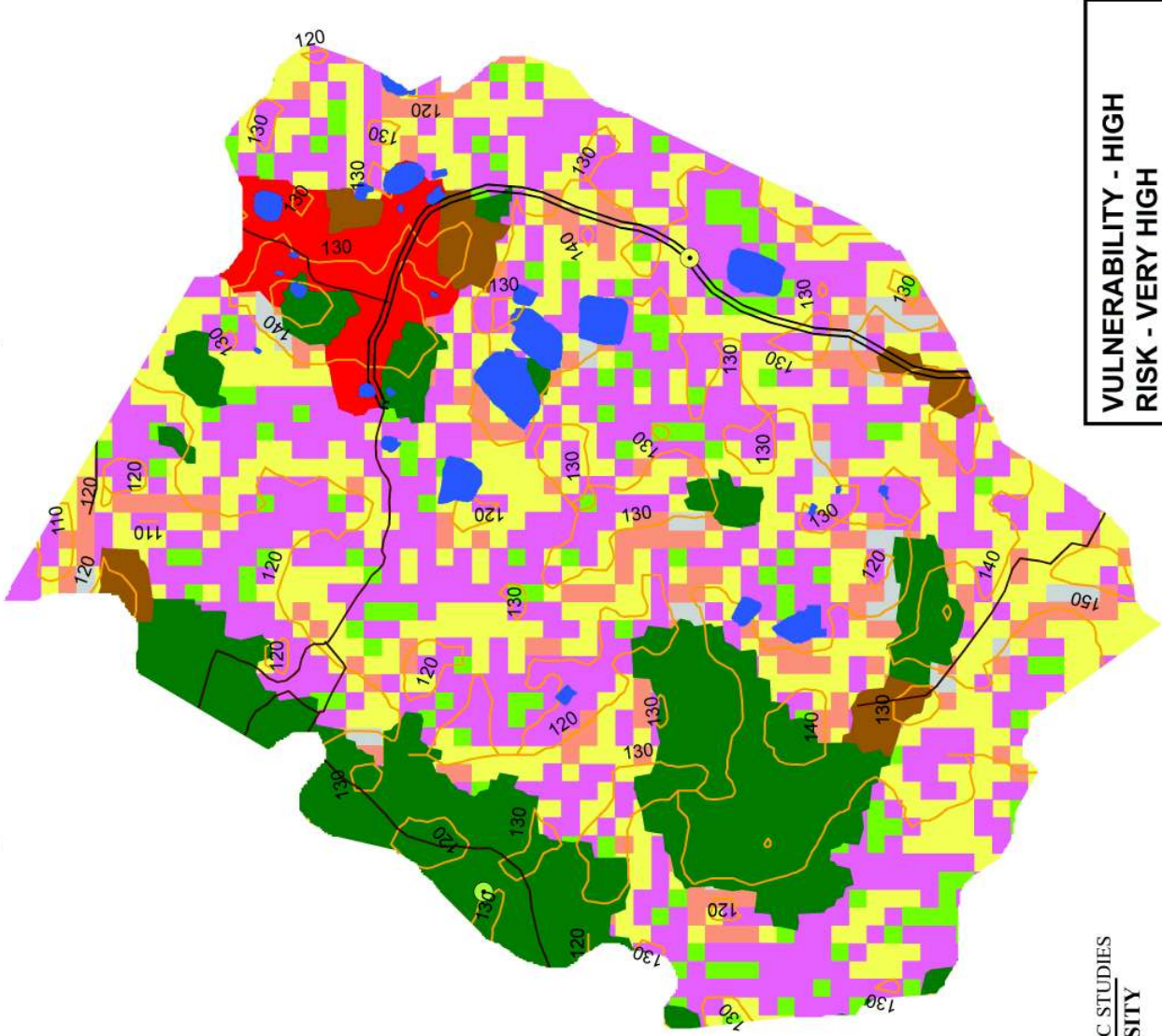
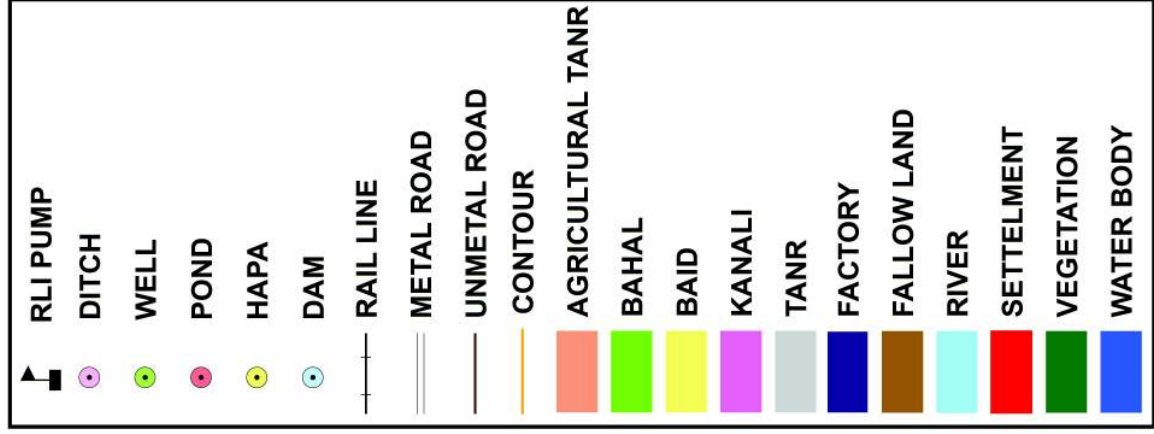
86°55'30"E

86°56'0"E

86°56'30"E



BESARA



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JADAVPUR UNIVERSITY

VULNERABILITY - HIGH
RISK - VERY HIGH



86°55'0"E

86°55'30"E

86°56'0"E

86°56'30"E

23°21'30"N

23°21'30"N

23°22'0"N

23°21'30"N

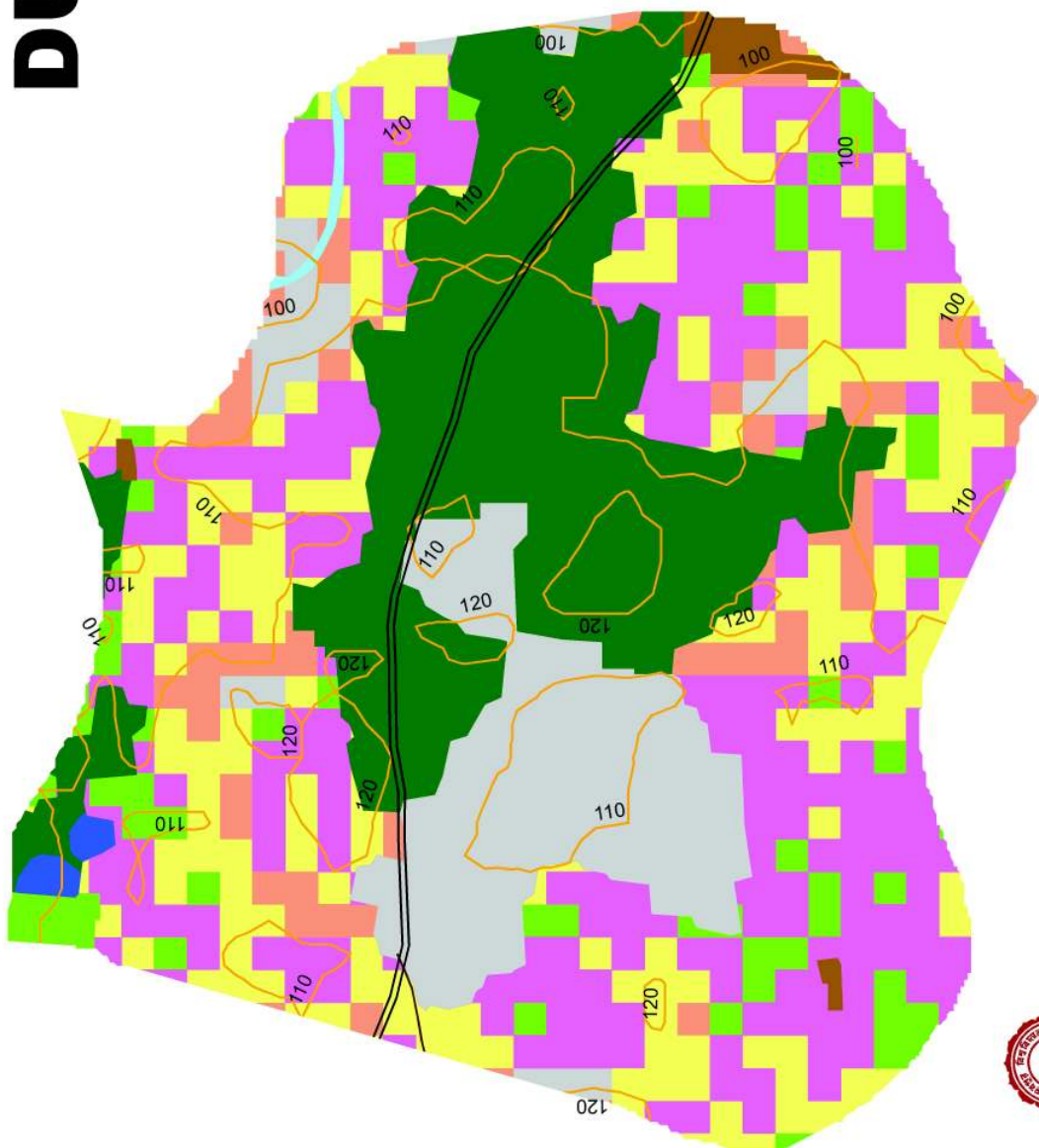
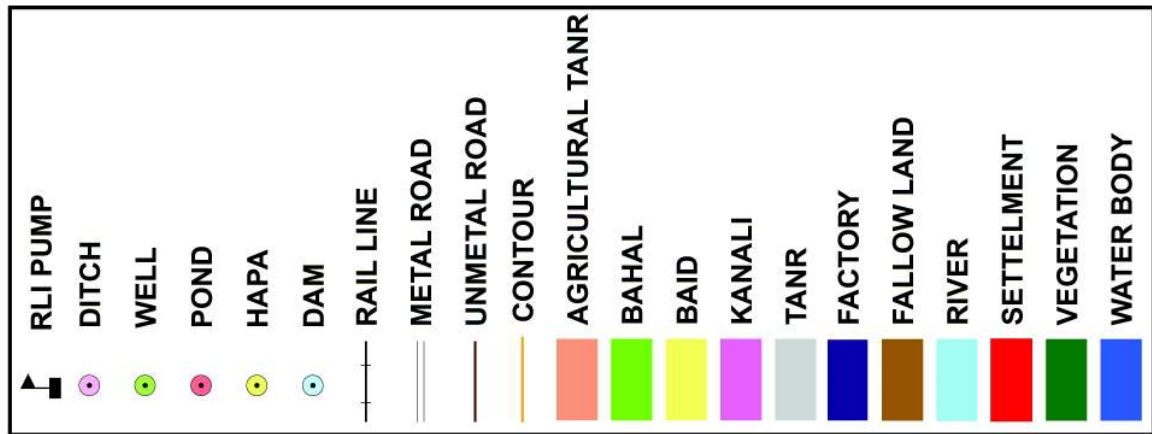
23°22'30"N

86°57'0"E

86°57'30"E



DUMUR KUNDI



**VULNERABILITY - VERY LOW
RISK - VERY LOW**



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86°57'0"E

86°57'30"E

23°23'30"N

23°23'30"N

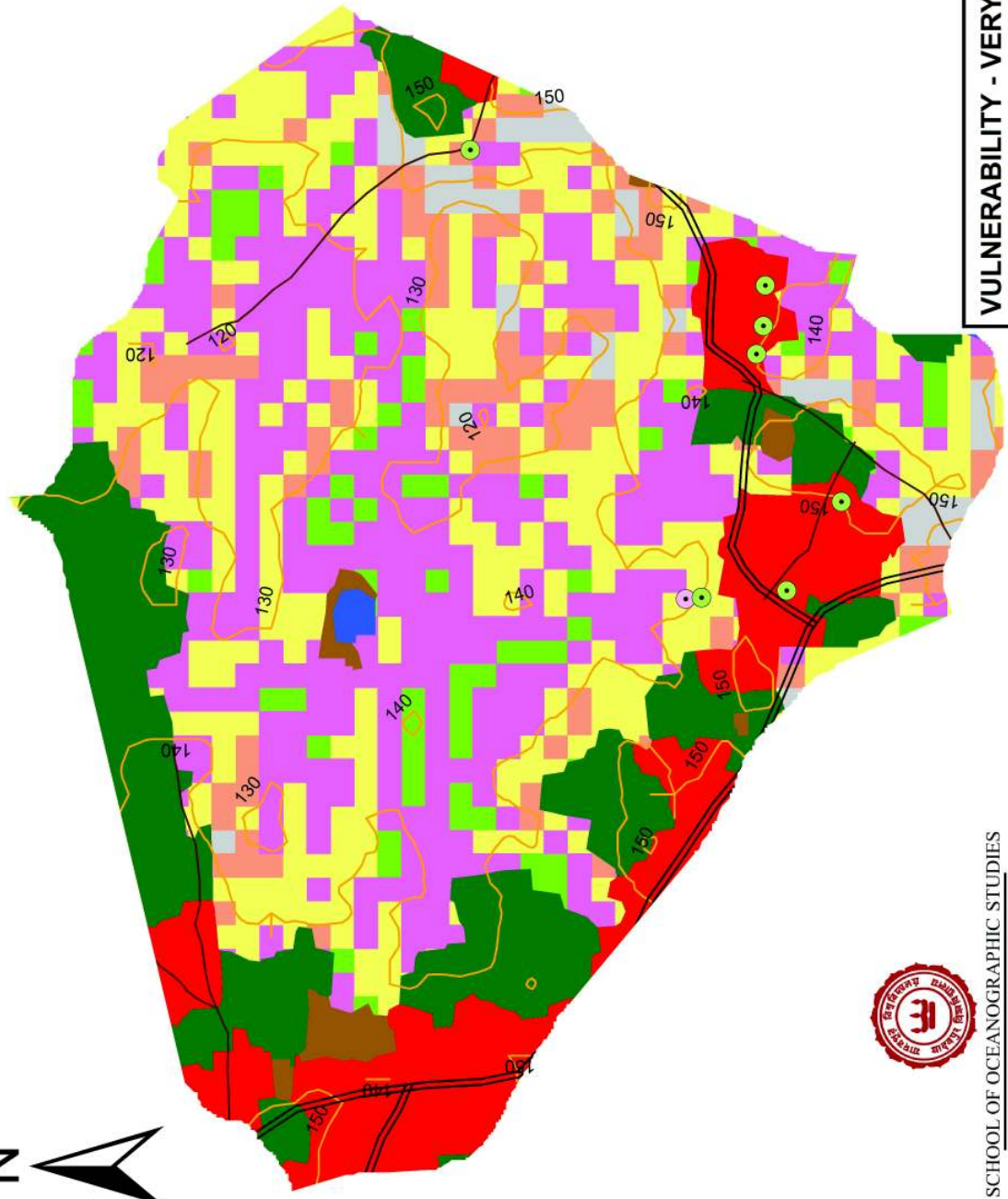
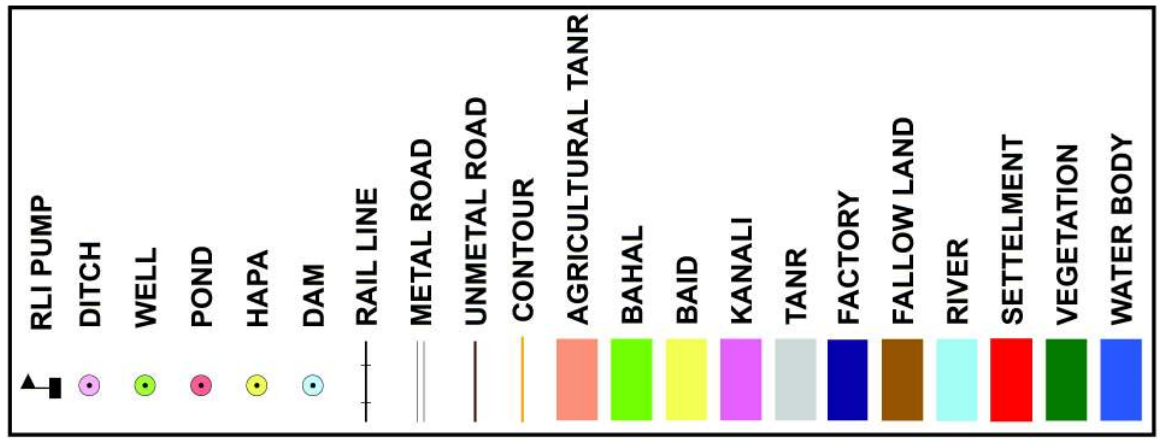
86°55'0"E

86°55'30"E

86°56'0"E



ENARI



VULNERABILITY - VERY LOW
RISK - VERY LOW



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86°55'0"E

86°55'30"E

86°56'0"E

23°21'0"N

23°21'30"N

23°21'0"N

23°21'30"N

86°53'30"E

86°54'0"E

86°54'30"E

86°55'0"E

86°55'30"E

86°56'0"E

23°23'30"N

23°23'0"N

23°22'30"N

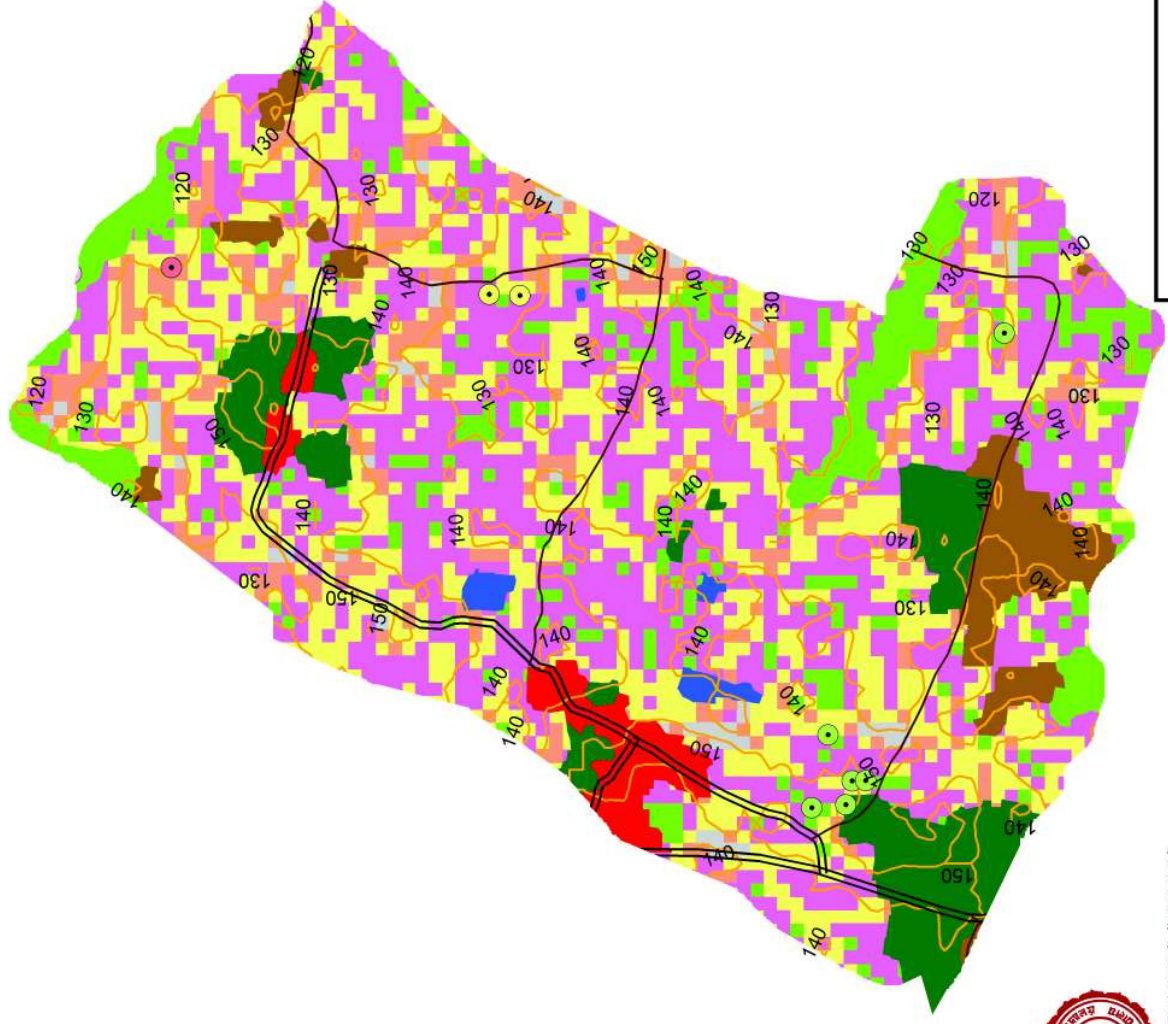
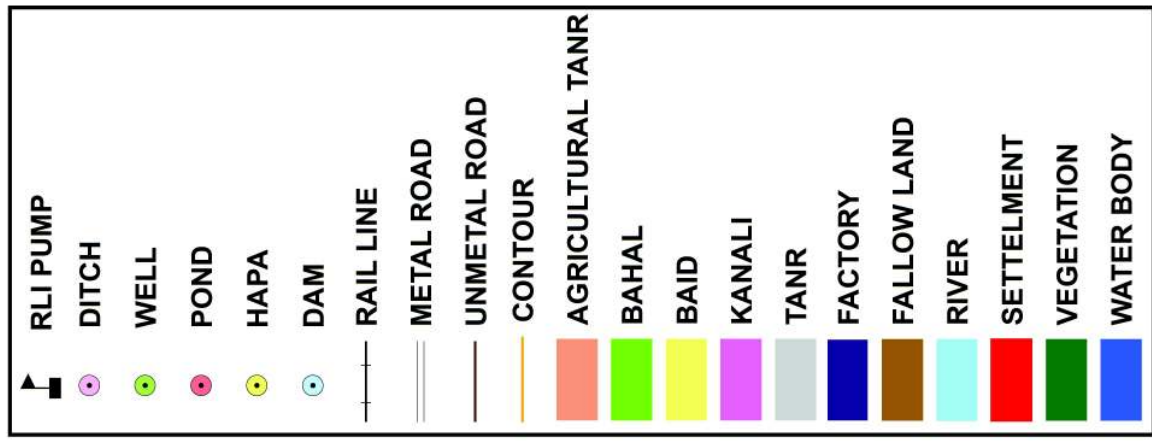
23°23'30"N

23°23'0"N

23°22'30"N



ETHANI



VULNERABILITY - VERY HIGH
RISK - VERY HIGH



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86°53'30"E

86°54'0"E

86°54'30"E

86°55'0"E

86°55'30"E

86°56'0"E

86°55'30"E

86°56'0"E

86°56'30"E

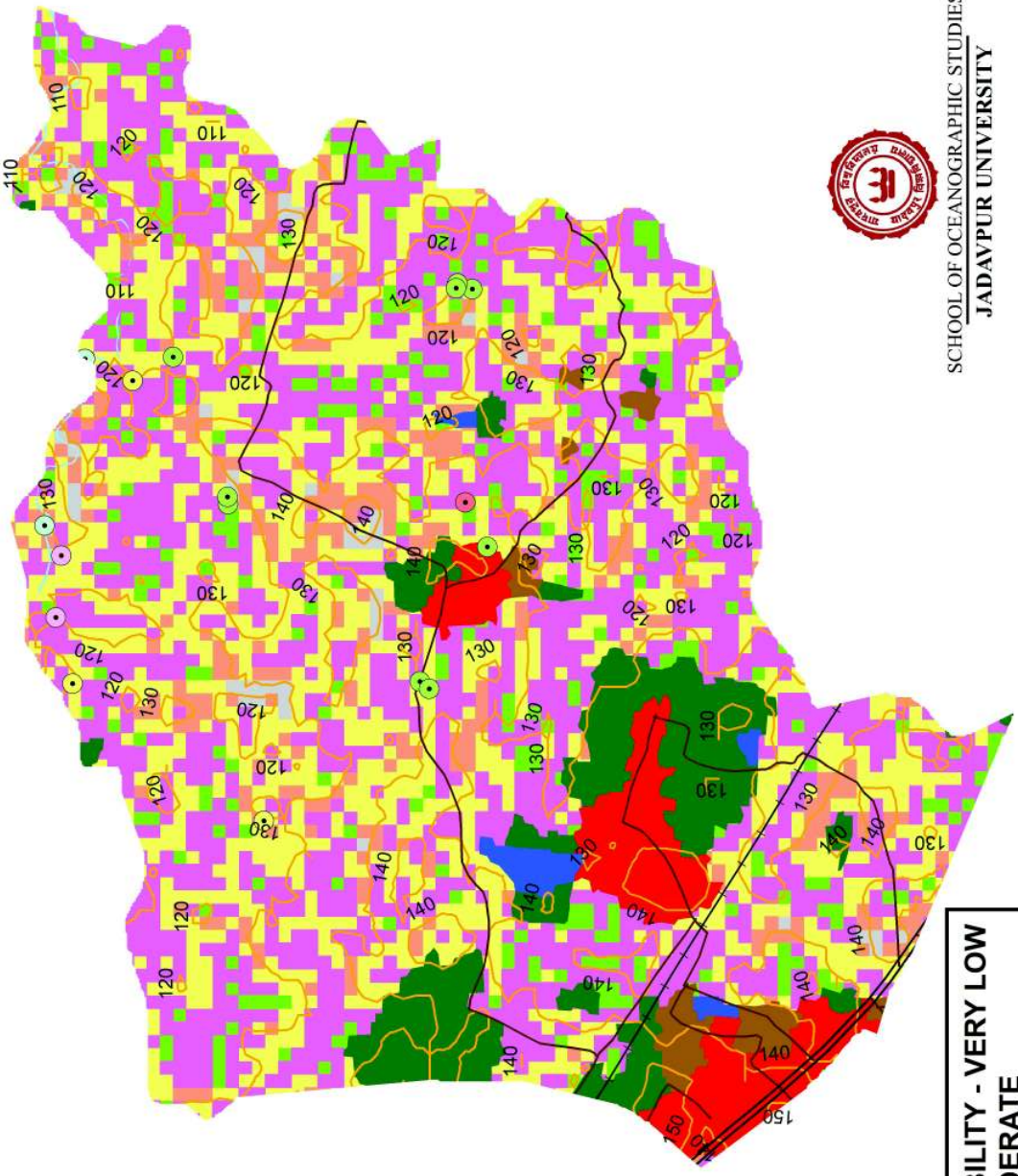
86°57'0"E

86°57'30"E

86°58'0"E



GHOSER GRAM



**VULNERABILITY - VERY LOW
RISK - MODERATE**

0 0.35 0.7 1.4 2.1 2.8



Kilometers

23°20'30"N

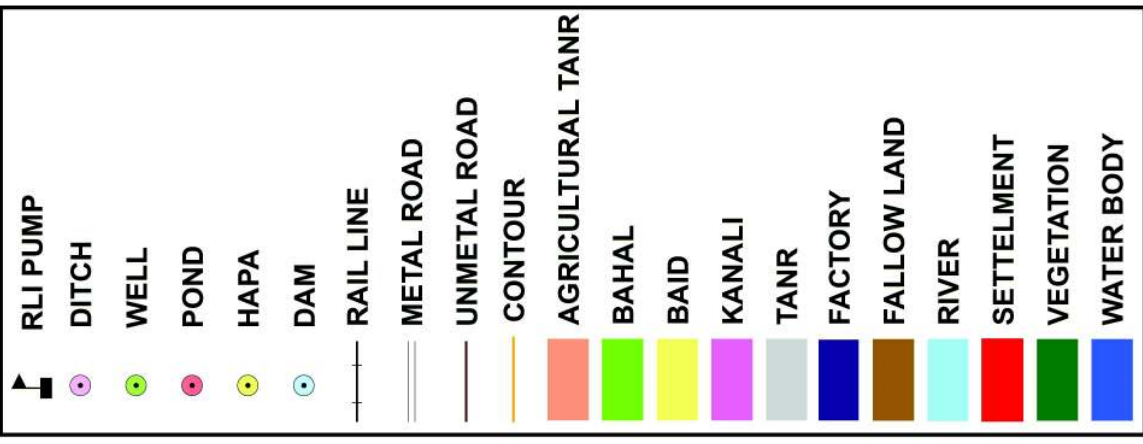
23°20'0"N

23°19'30"N

23°20'30"N

23°20'0"N

23°19'30"N



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86°55'30"E

86°56'0"E

86°56'30"E

86°57'0"E

86°57'30"E

86°58'0"E

86°55'30"E

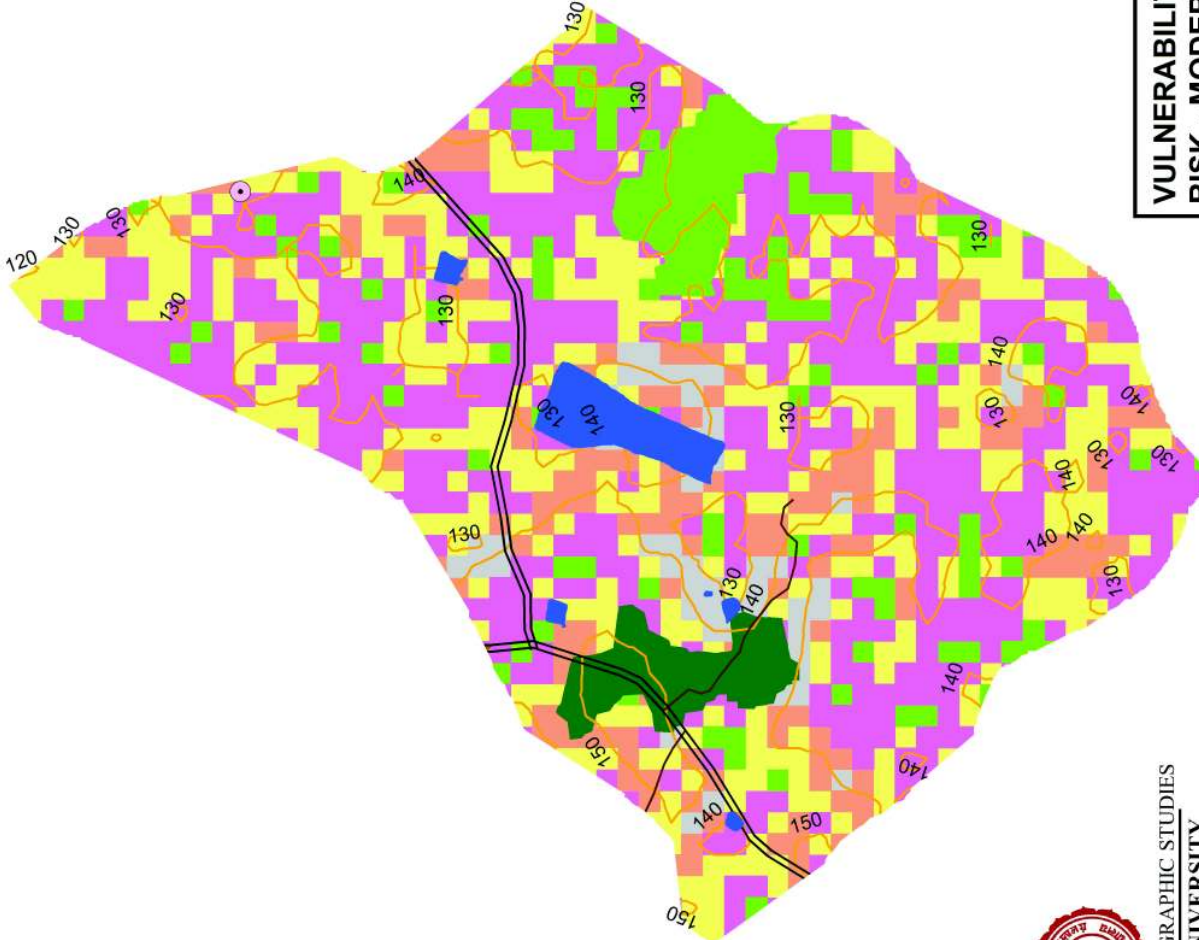
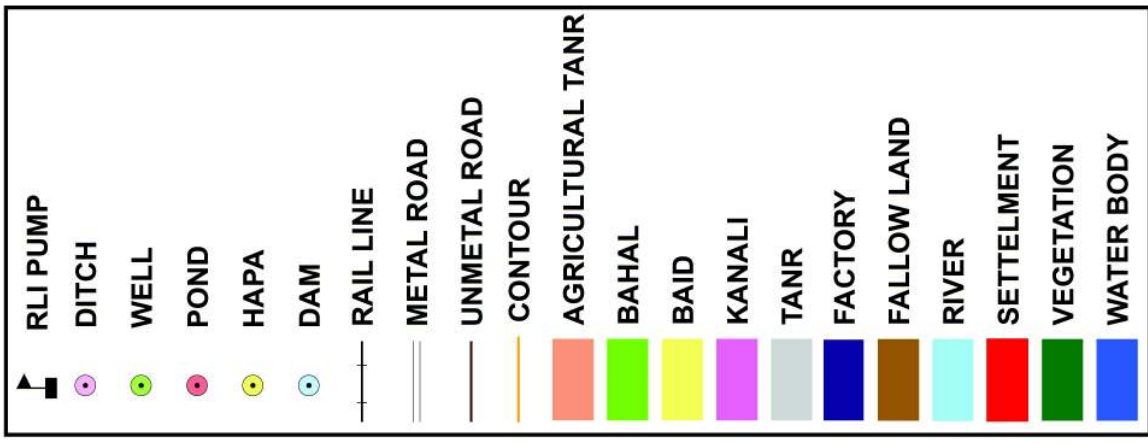
86°56'0"E

86°56'30"E

86°57'0"E



GOPALPUR



VULNERABILITY - VERY HIGH
RISK - MODERATE



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86°55'30"E

86°56'0"E

86°56'30"E

86°57'0"E

23°21'30"N

23°21'30"N

23°21'0"N

23°22'0"N

86°54'0"E

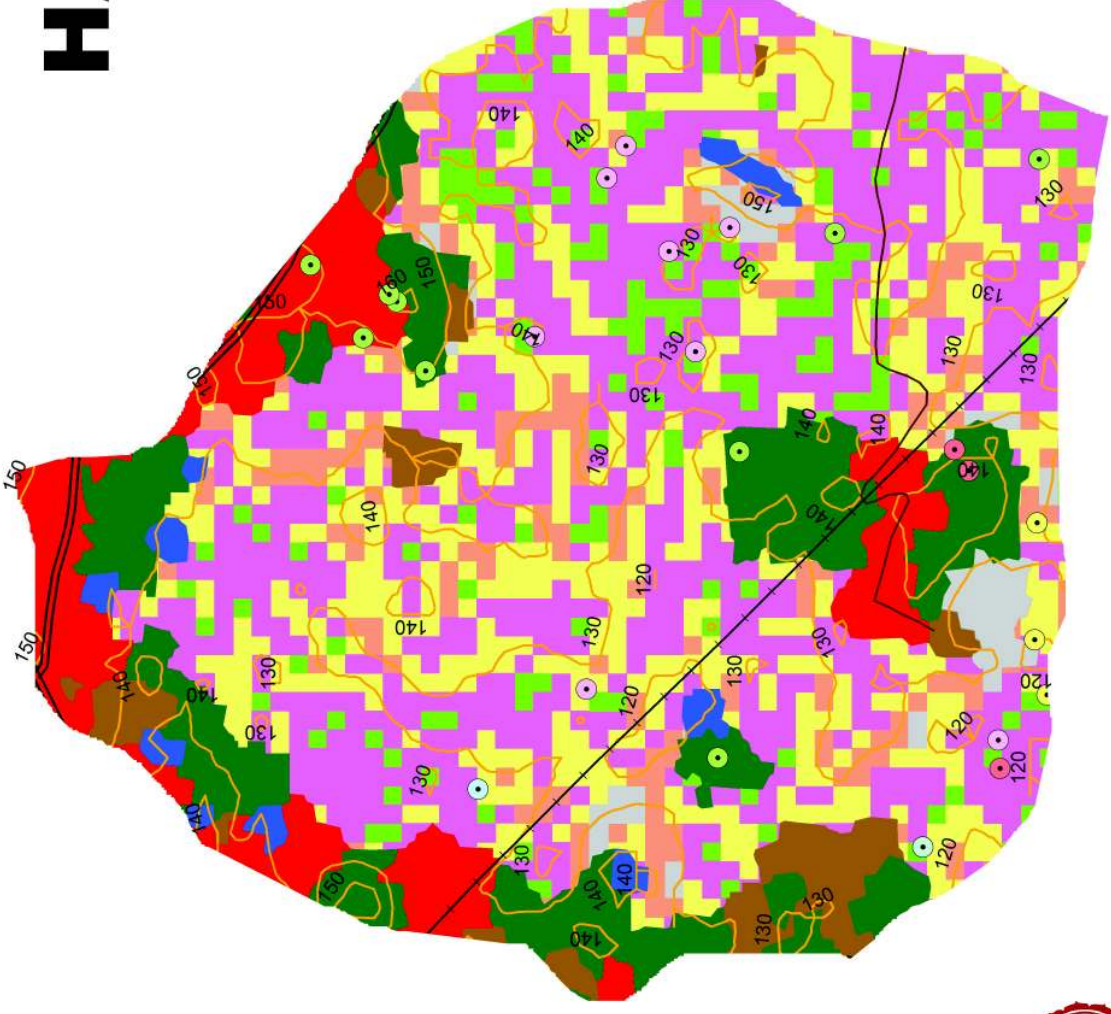
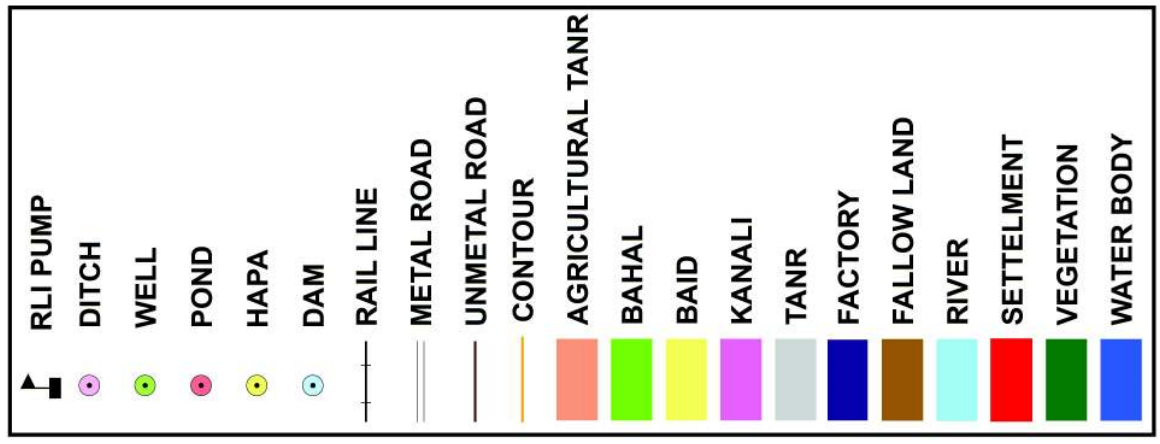
86°54'30"E

86°55'0"E

86°55'30"E



HANS PAHARI



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VULNERABILITY - HIGH
RISK - HIGH



86°54'0"E

86°54'30"E

86°55'0"E

86°55'30"E

23°20'30"N

23°21'0"N

23°21'30"N

23°20'30"N

23°21'0"N

23°21'30"N

86°57'0"E

86°57'30"E

86°58'0"E

86°58'30"E

86°59'0"E

23°22'0"N

23°21'30"N

23°21'0"N

23°21'30"N

23°21'0"N

86°57'0"E

86°57'30"E

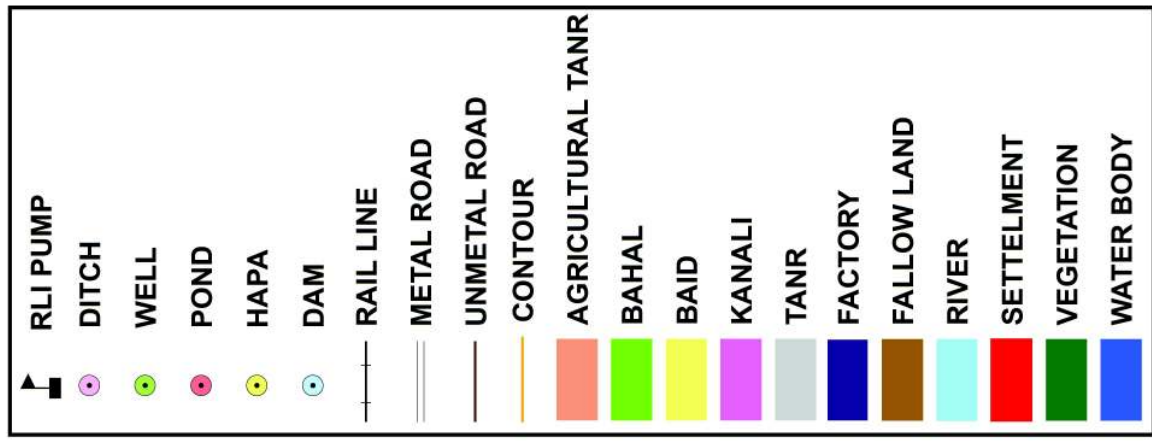
86°58'0"E

86°58'30"E

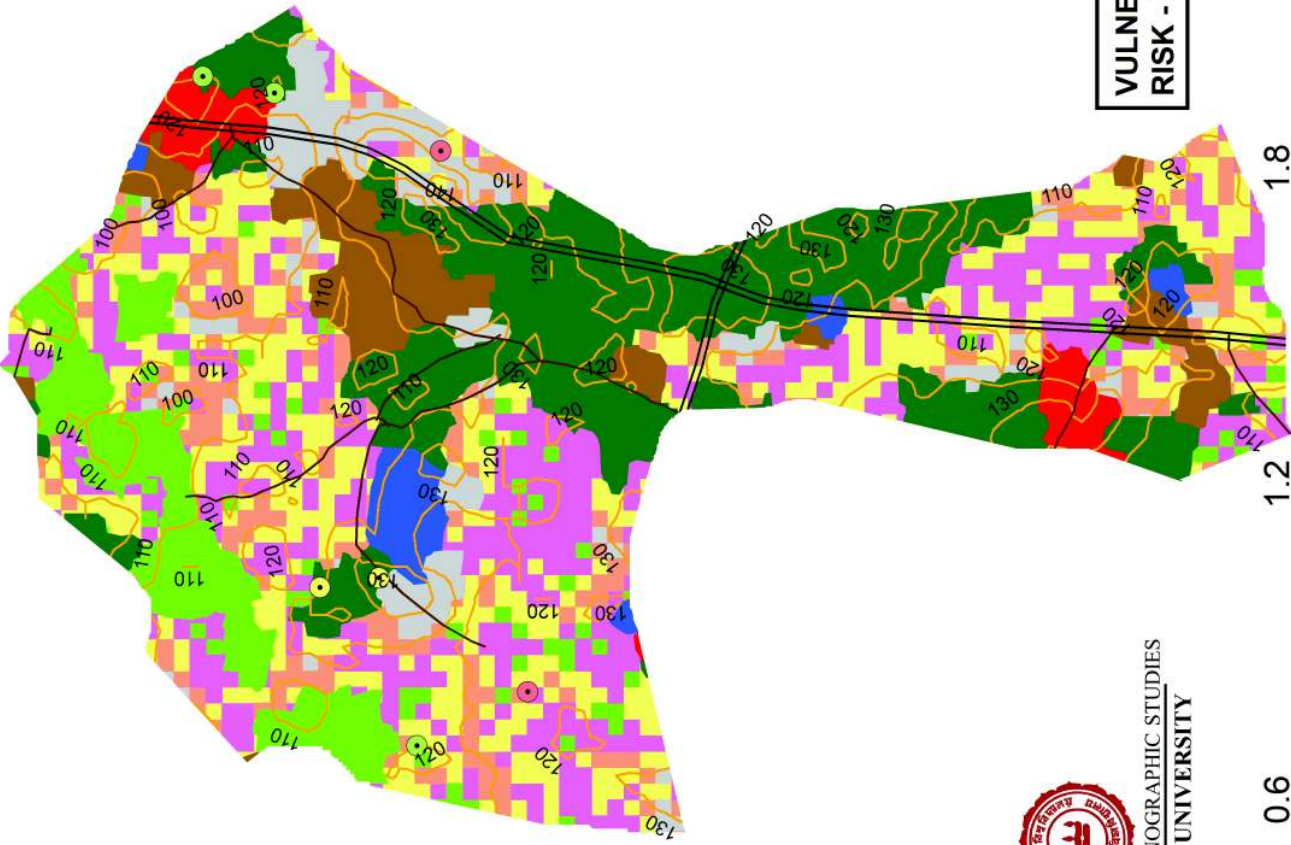
86°59'0"E



HAUSIBAD



VULNERABILITY - MODERATE
RISK - MODERATE



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86°55'30"E

86°56'0"E

86°56'30"E



JAINAGAR

23°24'0"N

23°24'0"N

23°23'30"N

23°23'30"N



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VULNERABILITY - VERY HIGH
RISK - HIGH

0 0.225 0.45

0.9

1.35

1.8

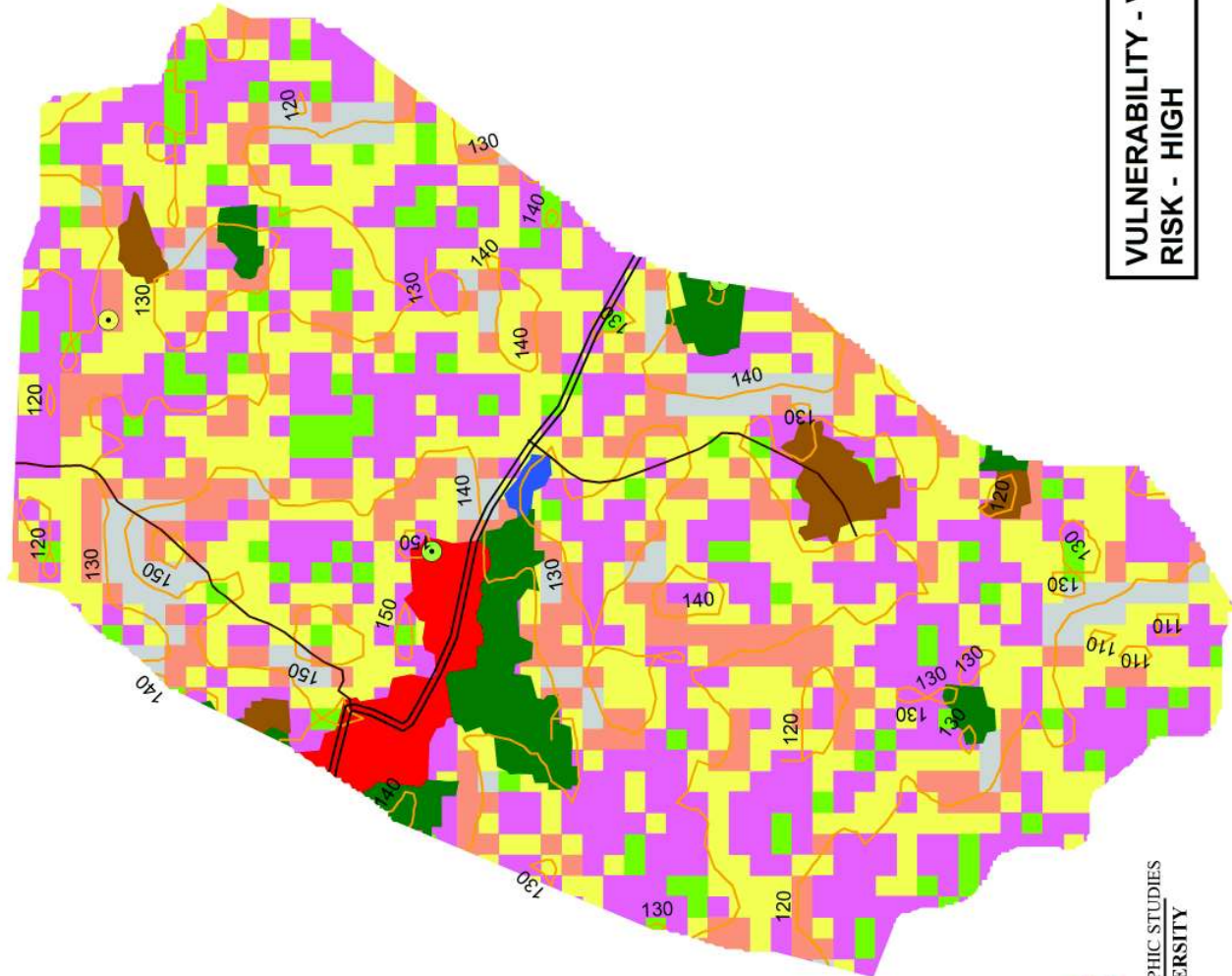
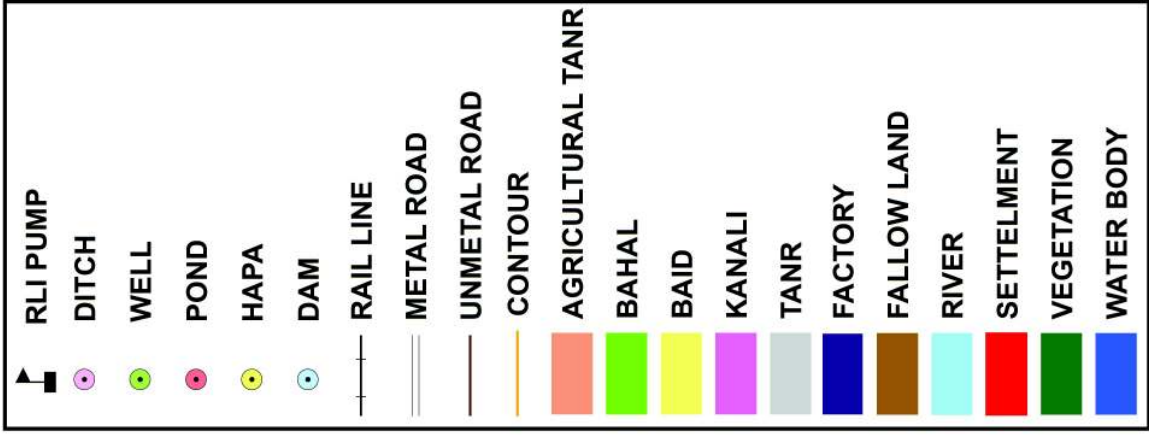
Kilometers



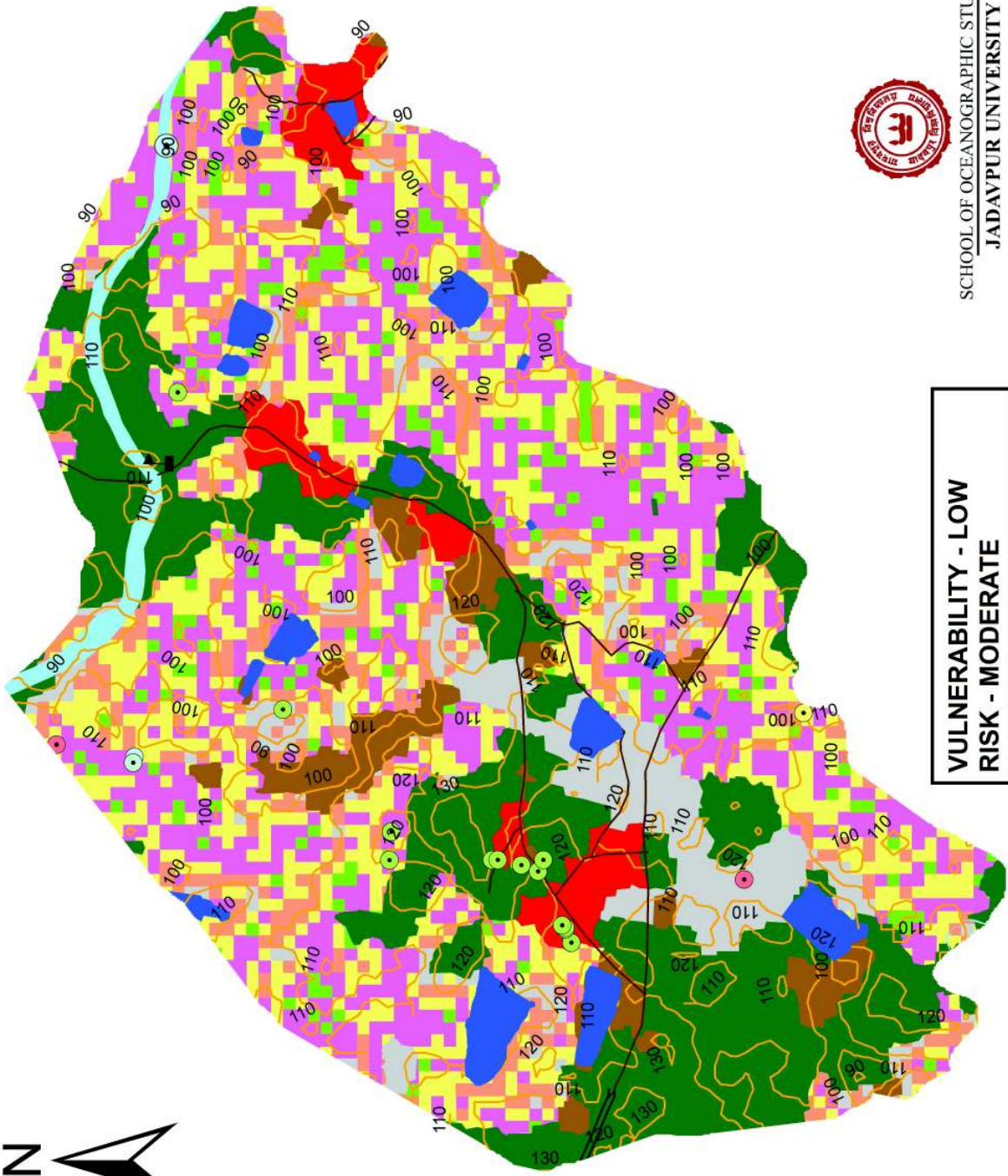
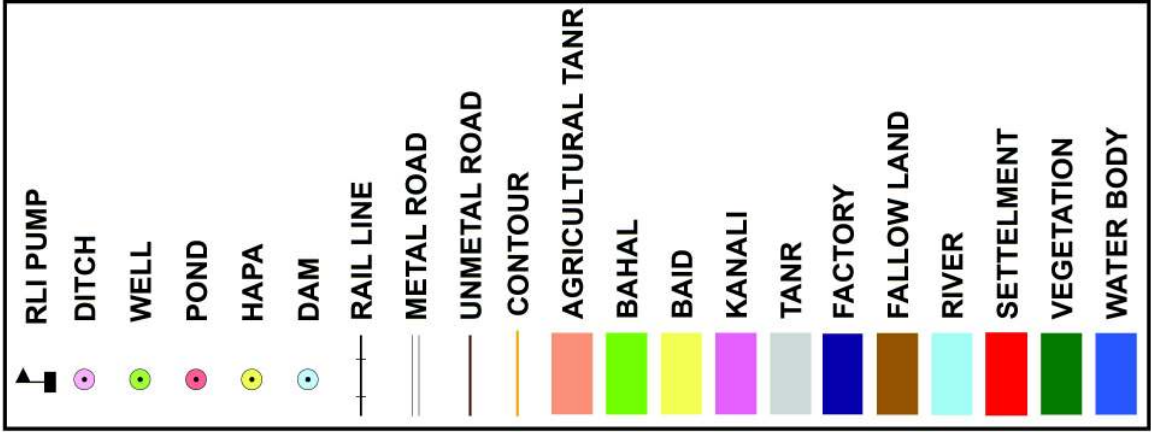
86°55'30"E

86°56'0"E

86°56'30"E

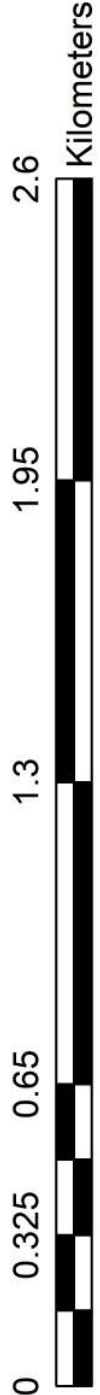


JHUNKA



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VULNERABILITY - LOW
RISK - MODERATE



87°0'0"E

86°59'30"E

86°59'0"E

86°58'30"E

86°58'0"E

87°0'0"E

86°59'30"E

86°59'0"E

86°58'30"E

86°58'0"E

23°22'0"N

23°21'30"N

23°21'0"N

23°22'0"N

23°21'30"N

23°21'0"N

86°54'30"E

86°55'0"E

86°55'30"E

86°56'0"E

23°24'30"N

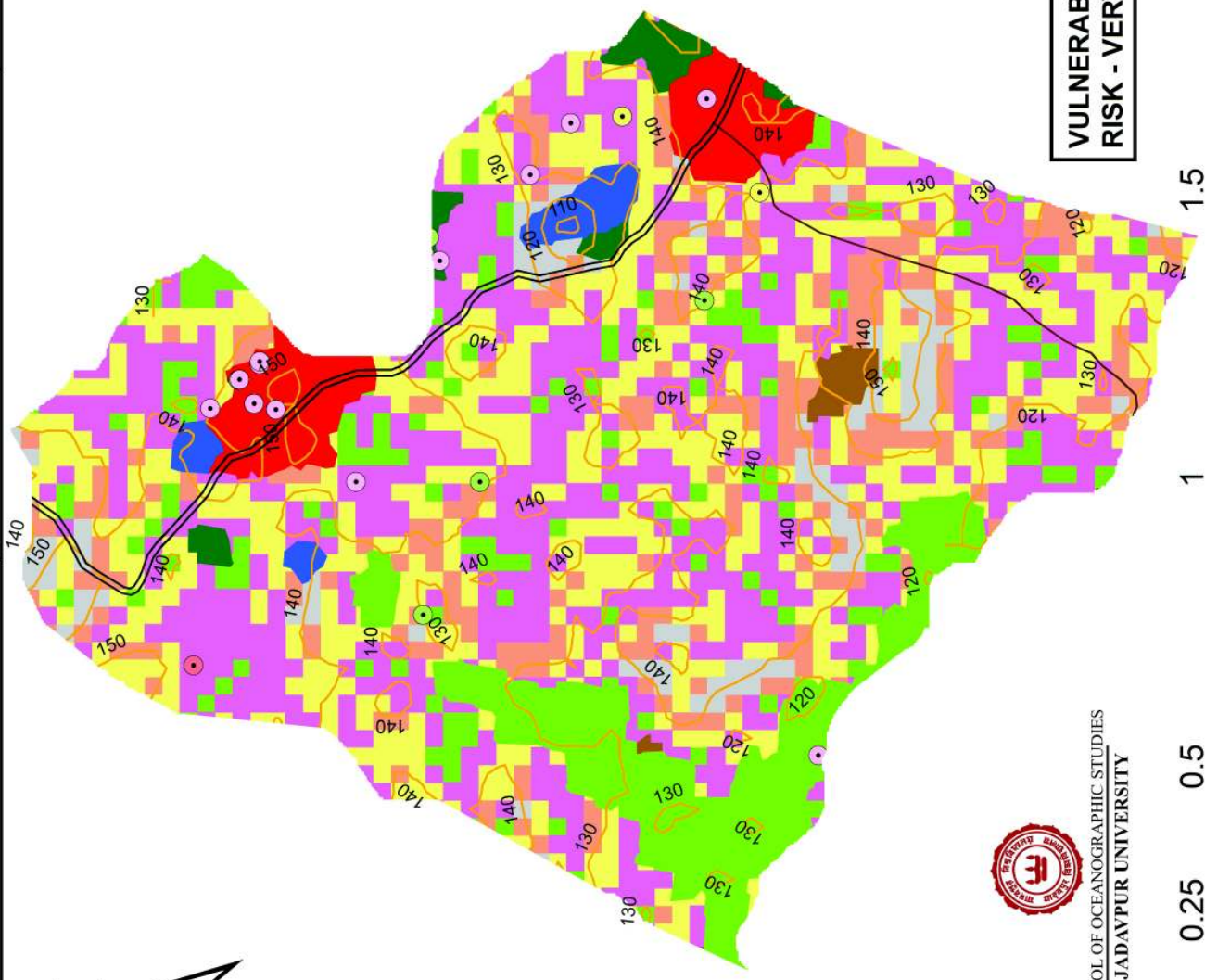
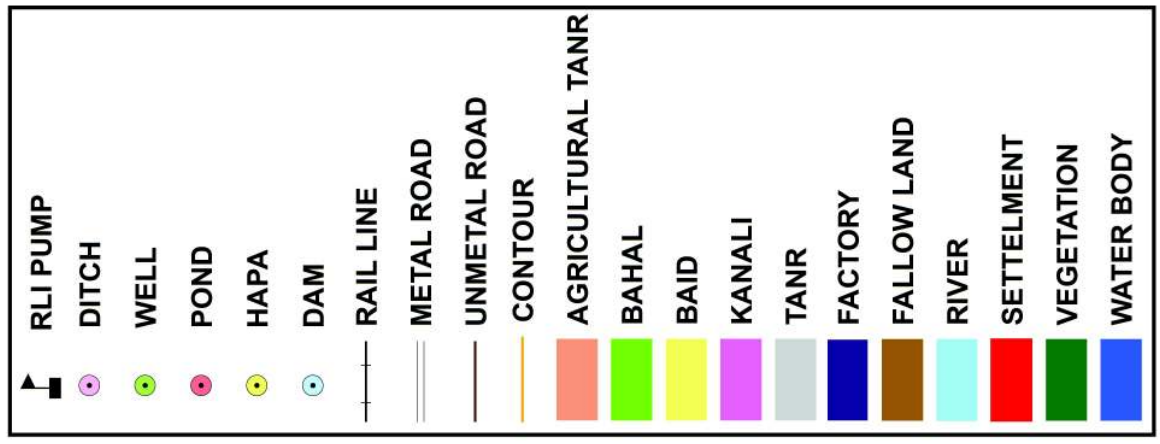
23°24'0"N

23°24'0"N

23°23'30"N



JIRRAKELAY



VULNERABILITY - VERY HIGH
RISK - VERY HIGH



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86°54'30"E

86°55'0"E

86°55'30"E

86°56'0"E

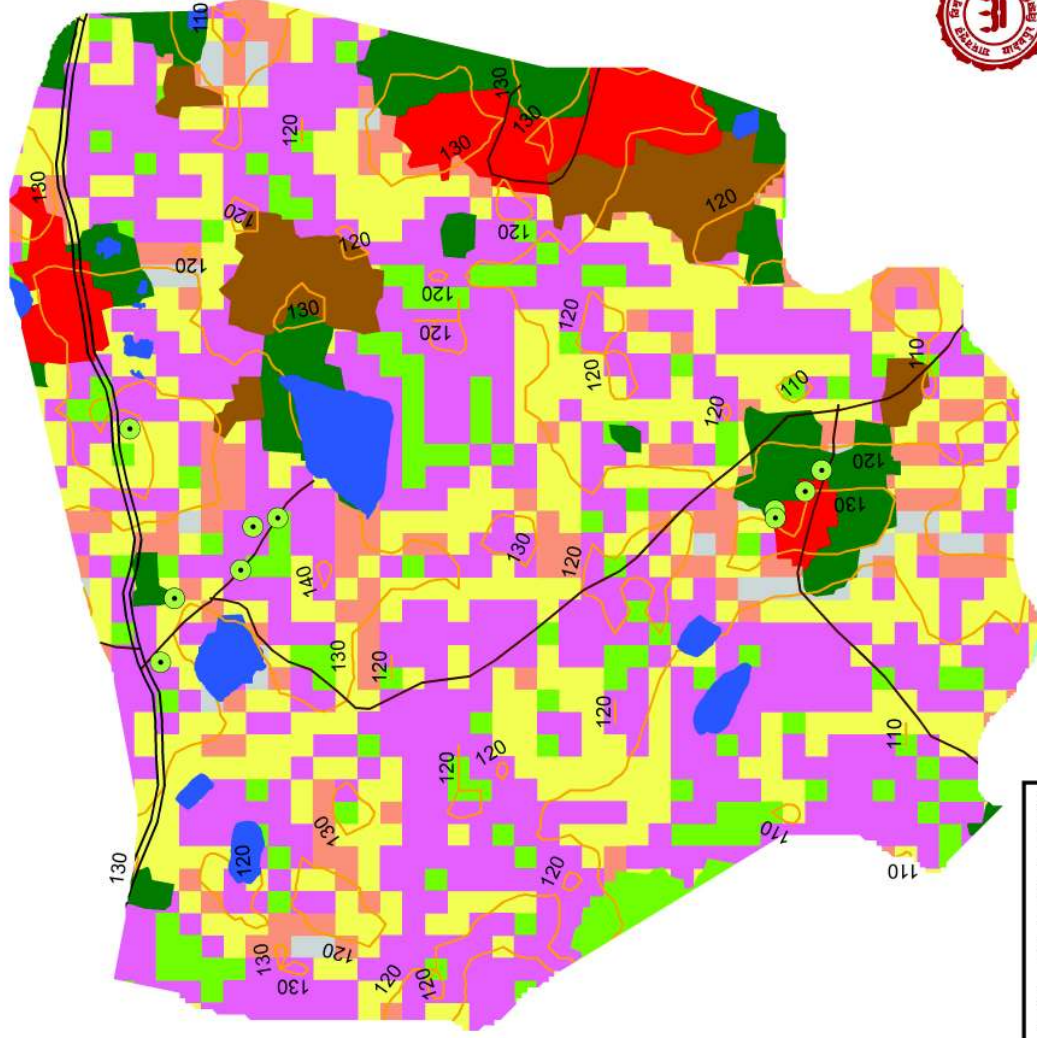
86°57'0"E

86°57'30"E

86°58'0"E



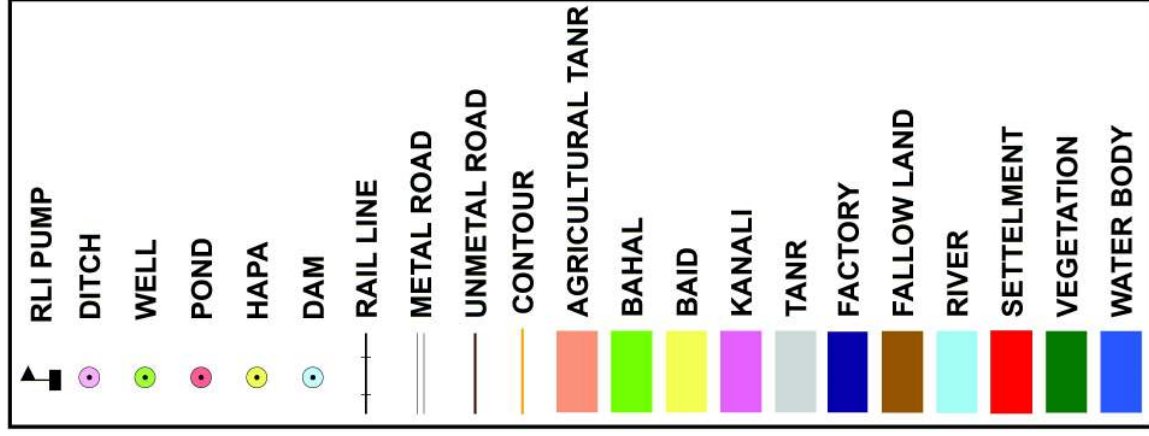
KALIPUR



VULNERABILITY - VERY LOW
RISK - LOW



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23°20'30"N

23°21'0"N

23°20'30"N

86°57'0"E

86°57'30"E

86°58'0"E

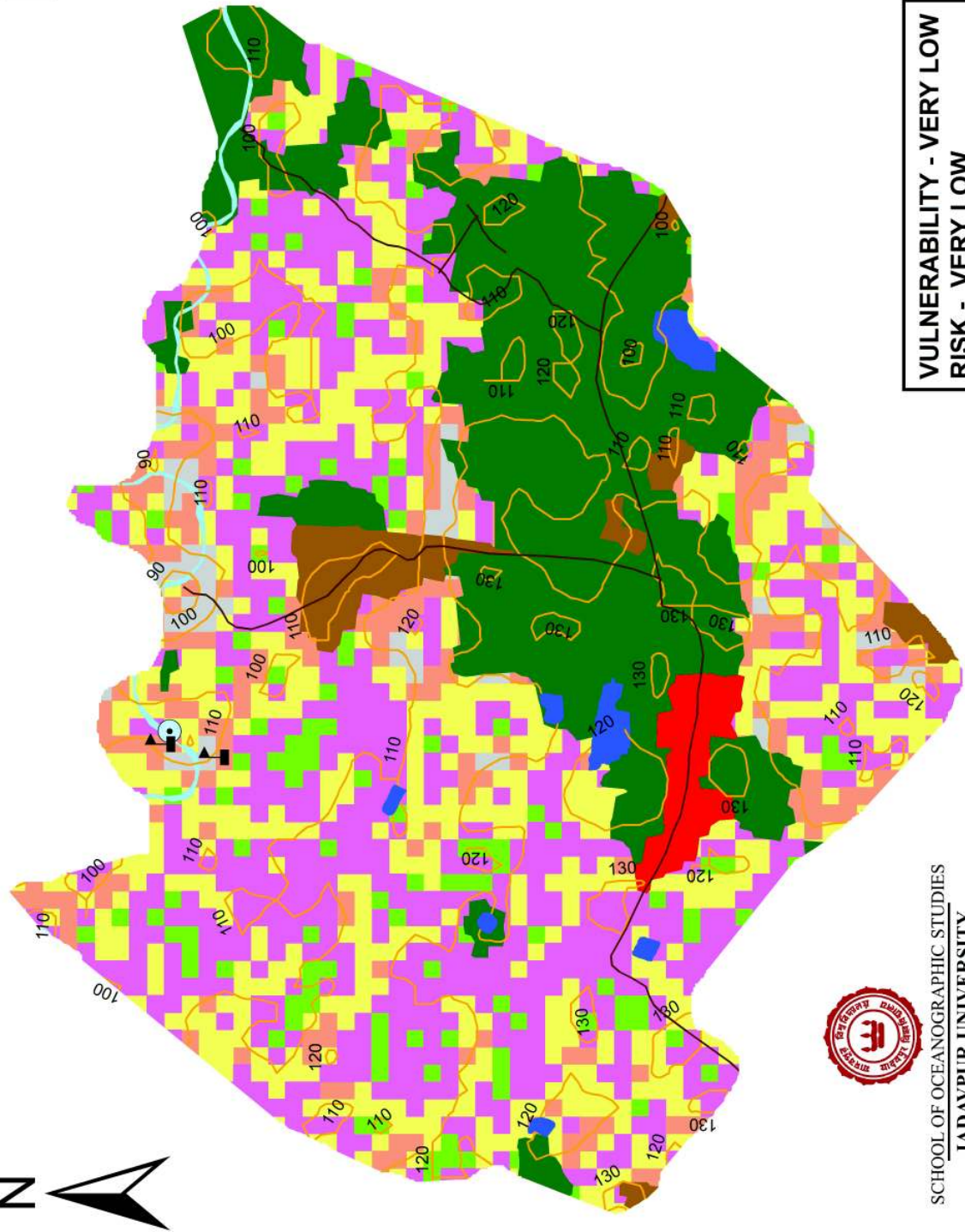
86°57'0"E

86°57'30"E

86°58'0"E



KENDUA



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VULNERABILITY - VERY LOW
RISK - VERY LOW

23°22'30"N

23°22'0"N

23°22'30"N

23°22'0"N

86°57'0"E

86°57'30"E

86°58'0"E

86°55'0"E

86°55'30"E

86°56'0"E

86°56'30"E

86°57'0"E

23°21'0"N

23°20'30"N

23°20'0"N

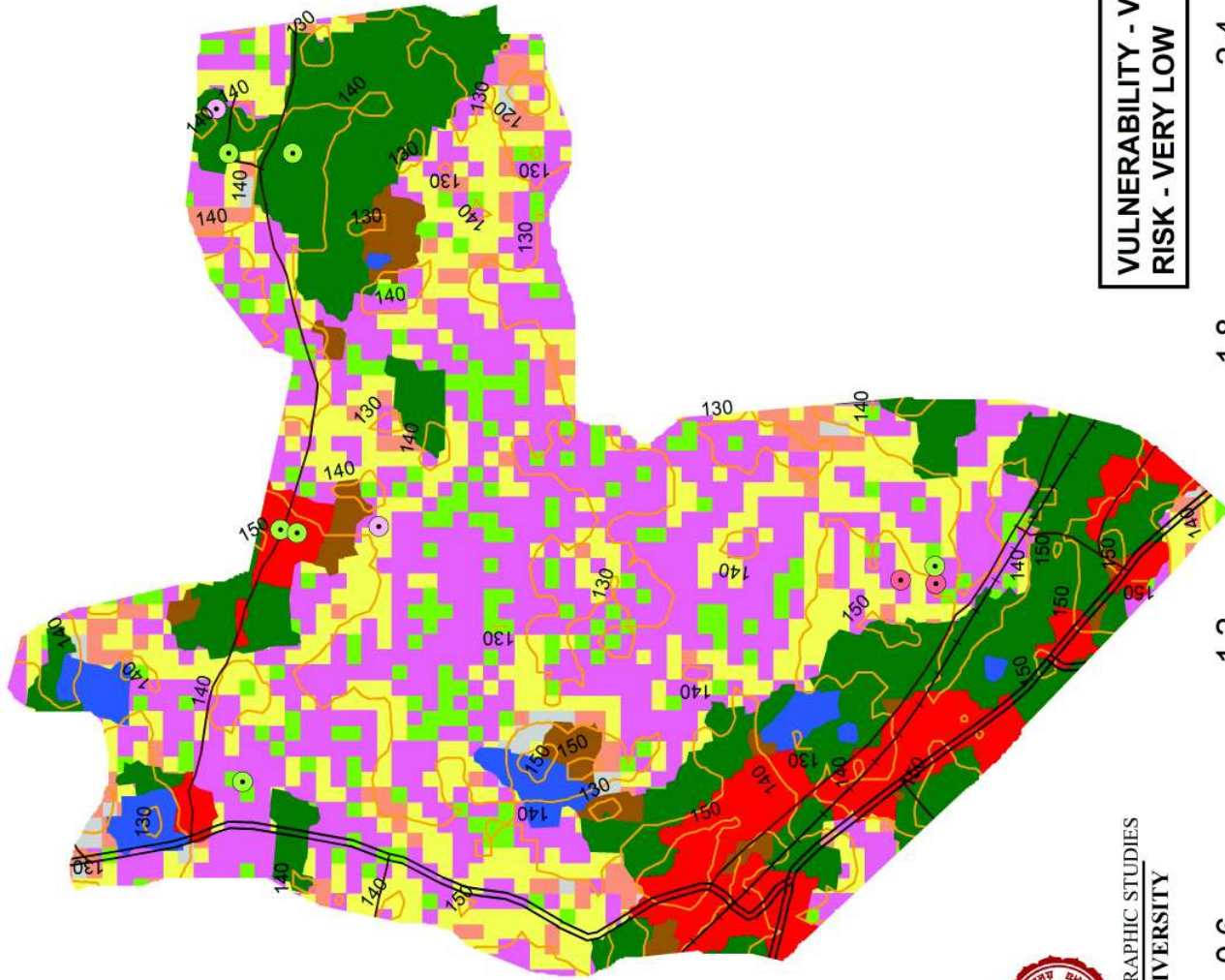
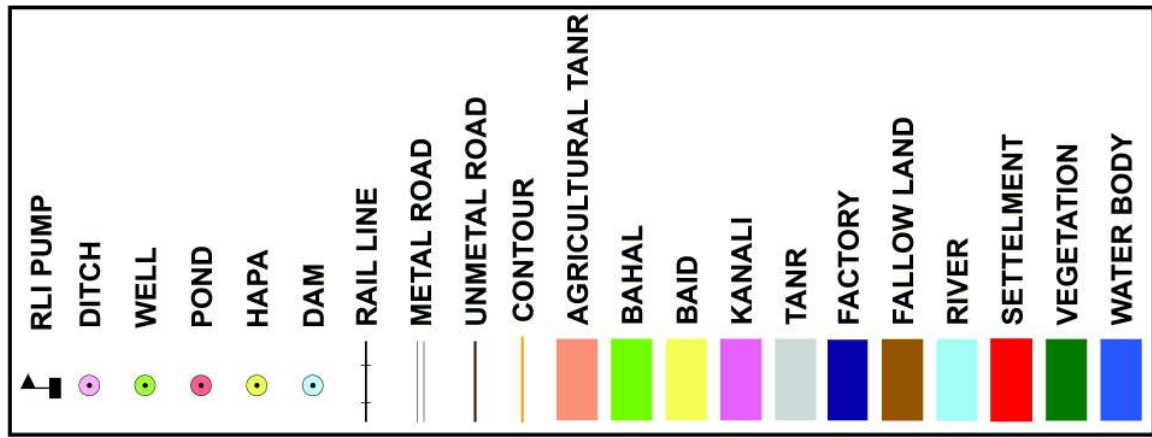
23°21'0"N

23°20'30"N

23°20'0"N



KHARBANA



VULNERABILITY - VERY LOW
RISK - VERY LOW



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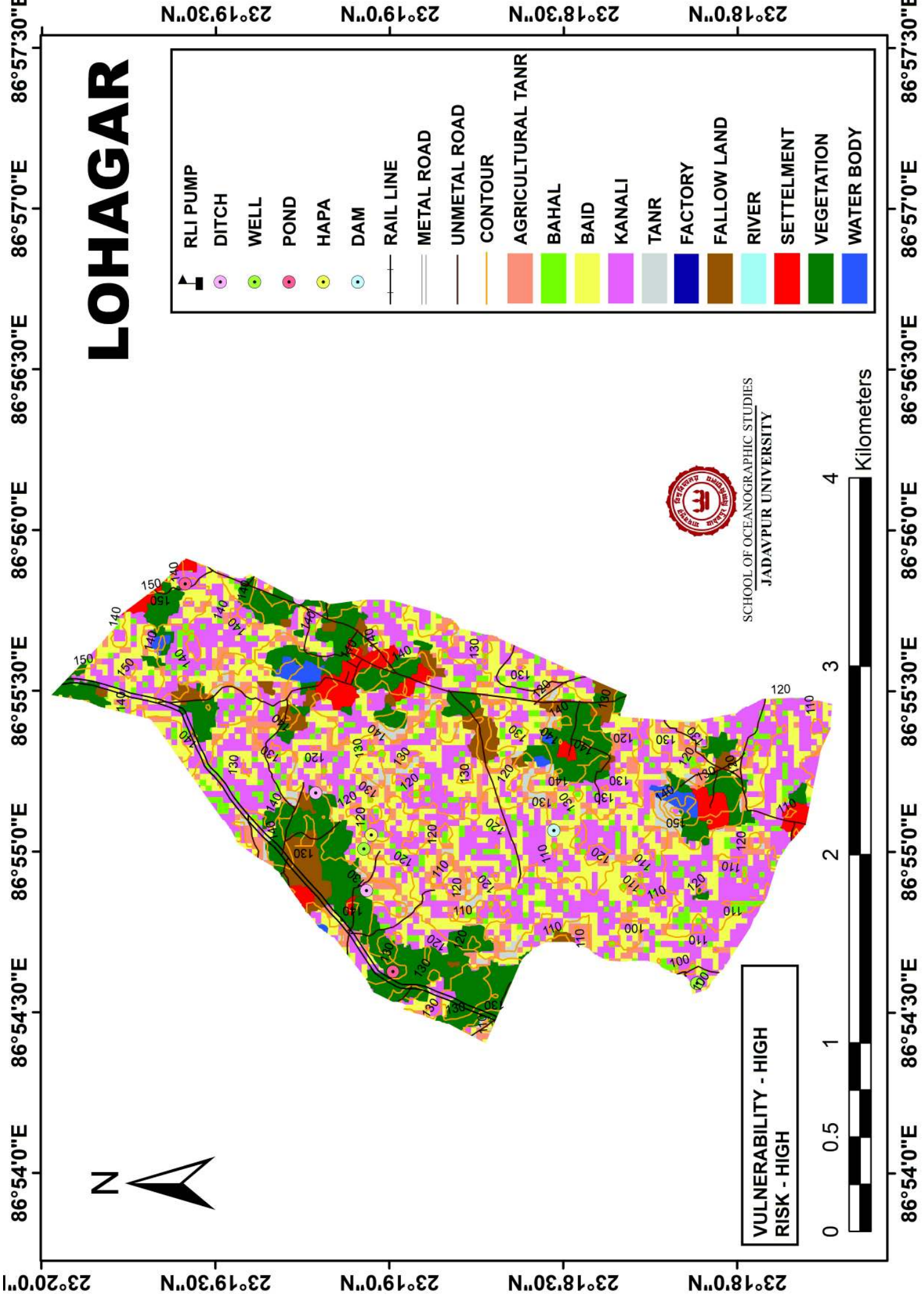
86°55'0"E

86°55'30"E

86°56'0"E

86°56'30"E

86°57'0"E



LOHAGAR

- RLI PUMP
- DITCH
- WELL
- POND
- HAPA
- DAM
- RAIL LINE
- METAL ROAD
- UNMETAL ROAD
- CONTOUR
- AGRICULTURAL TANR
- BAHAL
- BAID
- KANALI
- TANR
- FACTORY
- FALLOW LAND
- RIVER
- SETTELMENT
- VEGETATION
- WATER BODY



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VULNERABILITY - HIGH
 RISK - HIGH



23°20'0"N 23°19'30"N 23°19'0"N 23°18'30"N 23°18'0"N
 86°54'0"E 86°54'30"E 86°55'0"E 86°55'30"E 86°56'0"E 86°56'30"E 86°57'0"E 86°57'30"E

86°56'30"E

86°57'0"E

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86°58'0"E

23°22'0"N

23°21'30"N

23°21'30"N

86°56'30"E

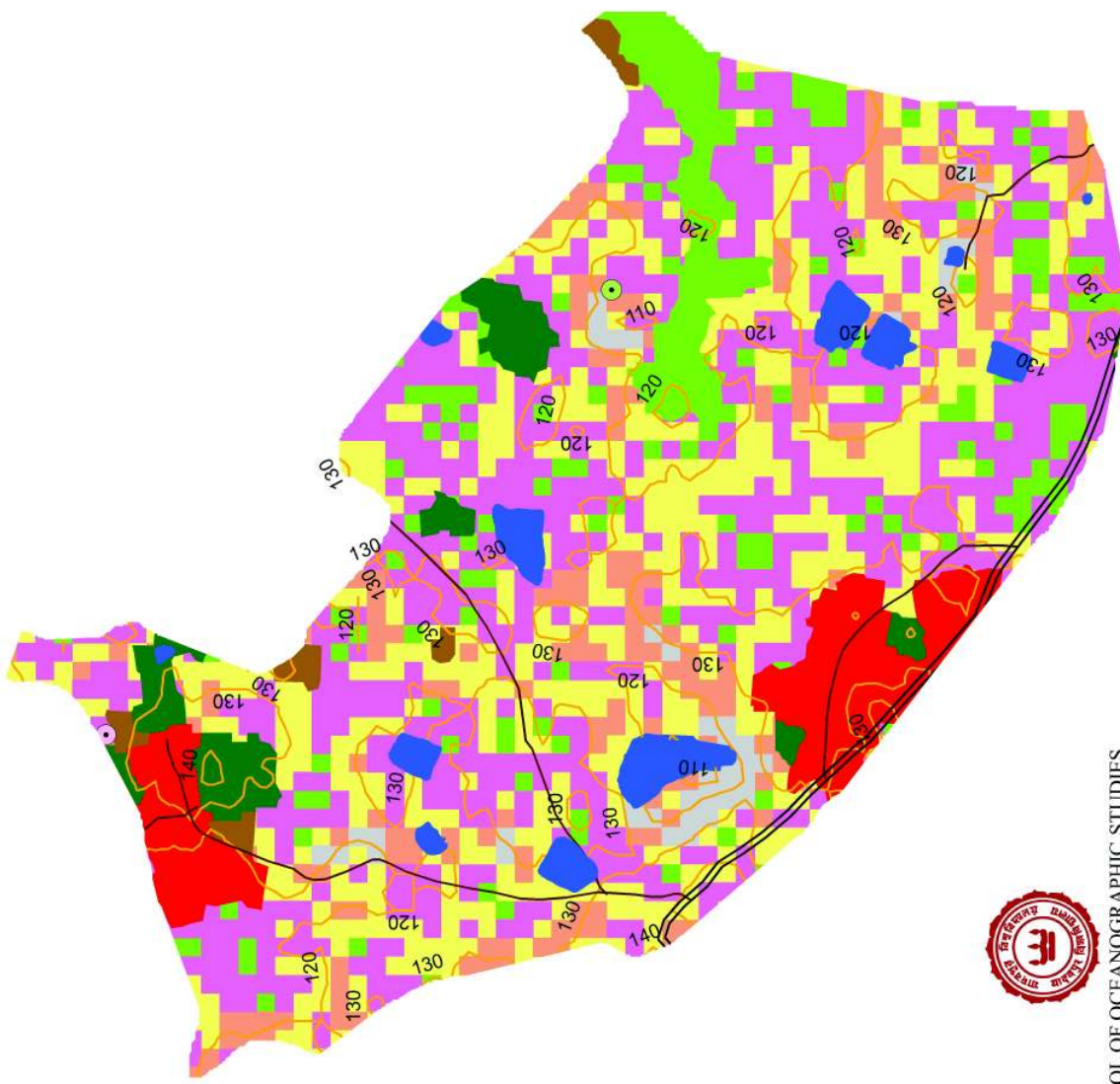
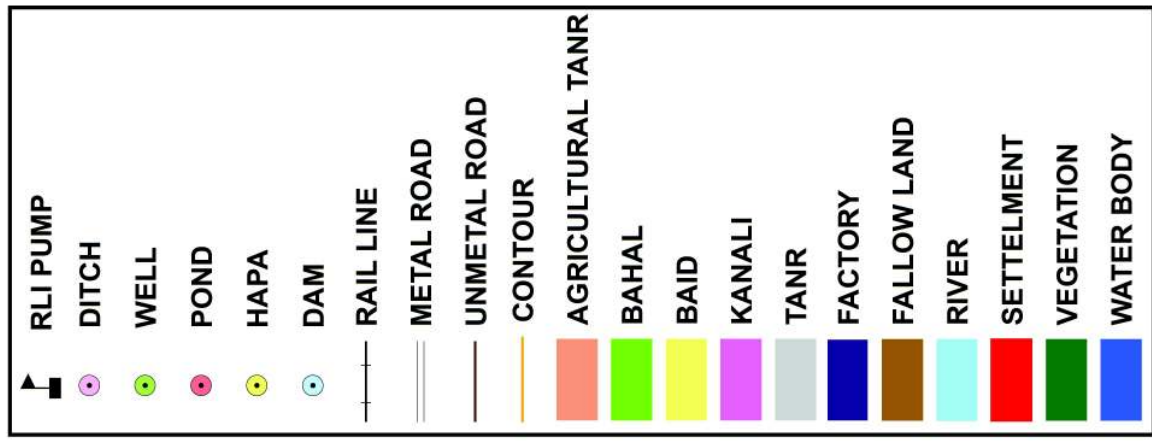
86°57'0"E

86°57'30"E

86°58'0"E



MAJHIDI



VULNERABILITY - LOW
RISK - MODERATE



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23°22'30"N

23°22'30"N

23°23'0"N

23°22'30"N

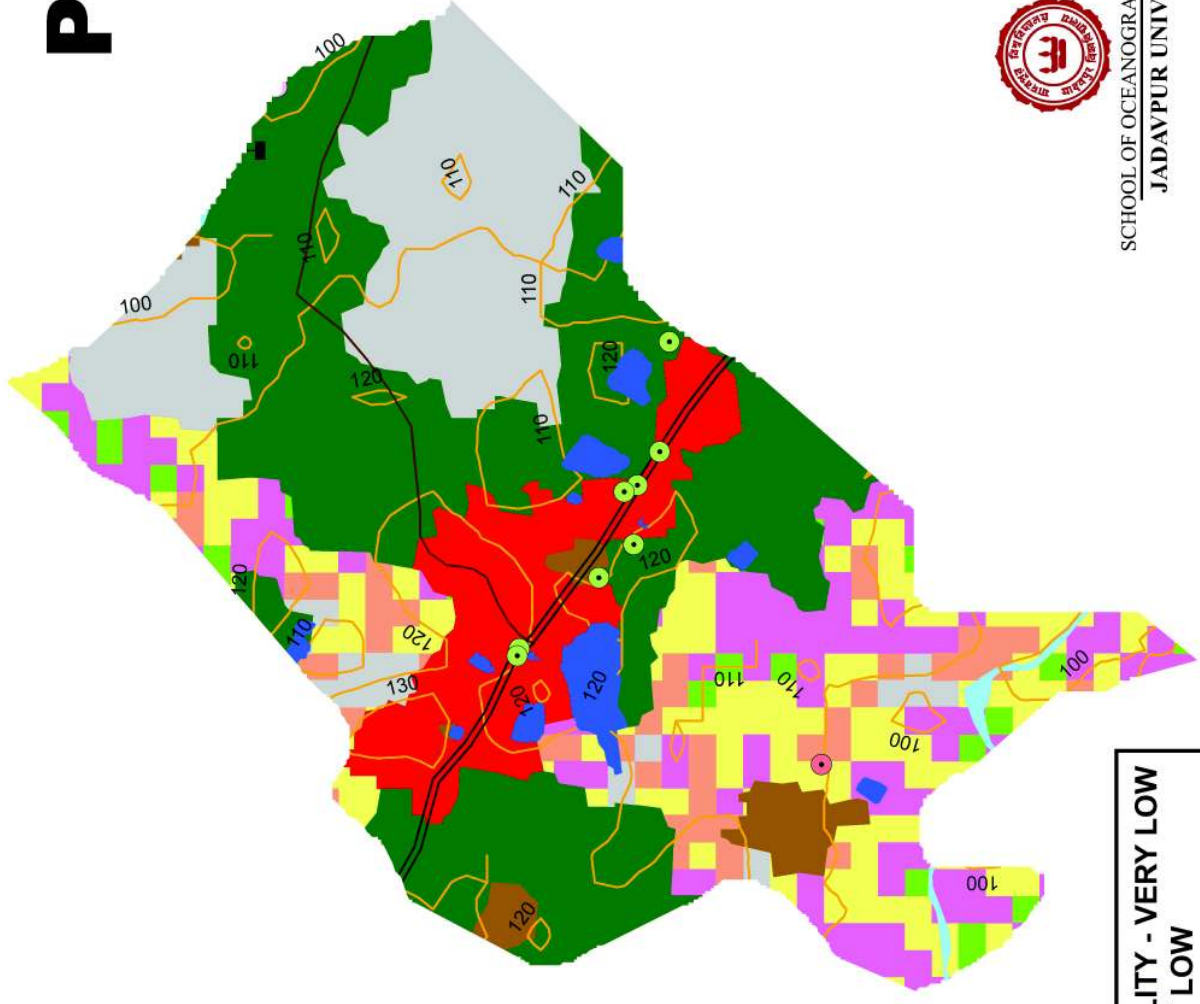
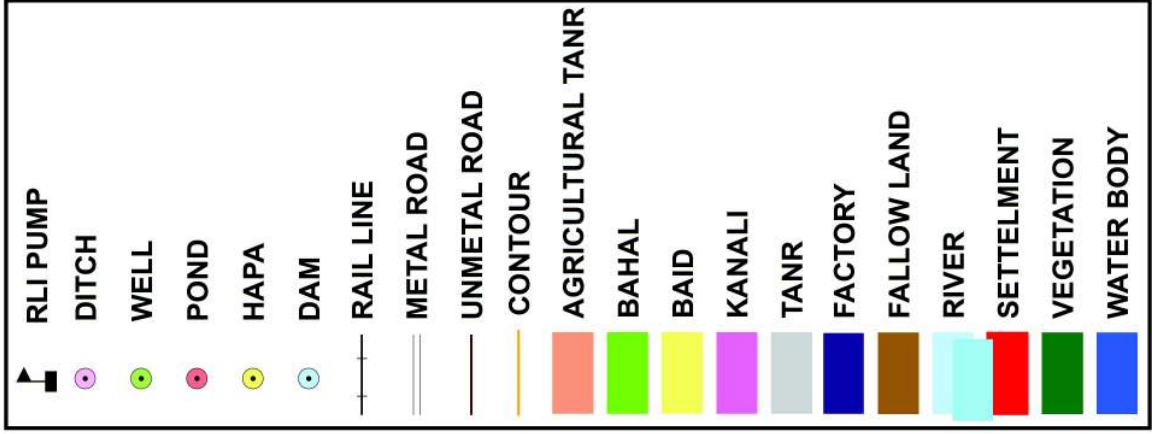
86°57'30"E

86°57'0"E

86°57'30"E

86°57'0"E

PENCHASIMUL



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VULNERABILITY - VERY LOW
RISK - VERY LOW



Kilometers

86°54'0"E

86°54'30"E

86°55'0"E

86°55'30"E

86°56'0"E

86°54'0"E

86°54'30"E

86°55'0"E

86°55'30"E

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23°22'30"N

23°22'0"N

23°21'30"N

23°22'30"N

23°22'0"N

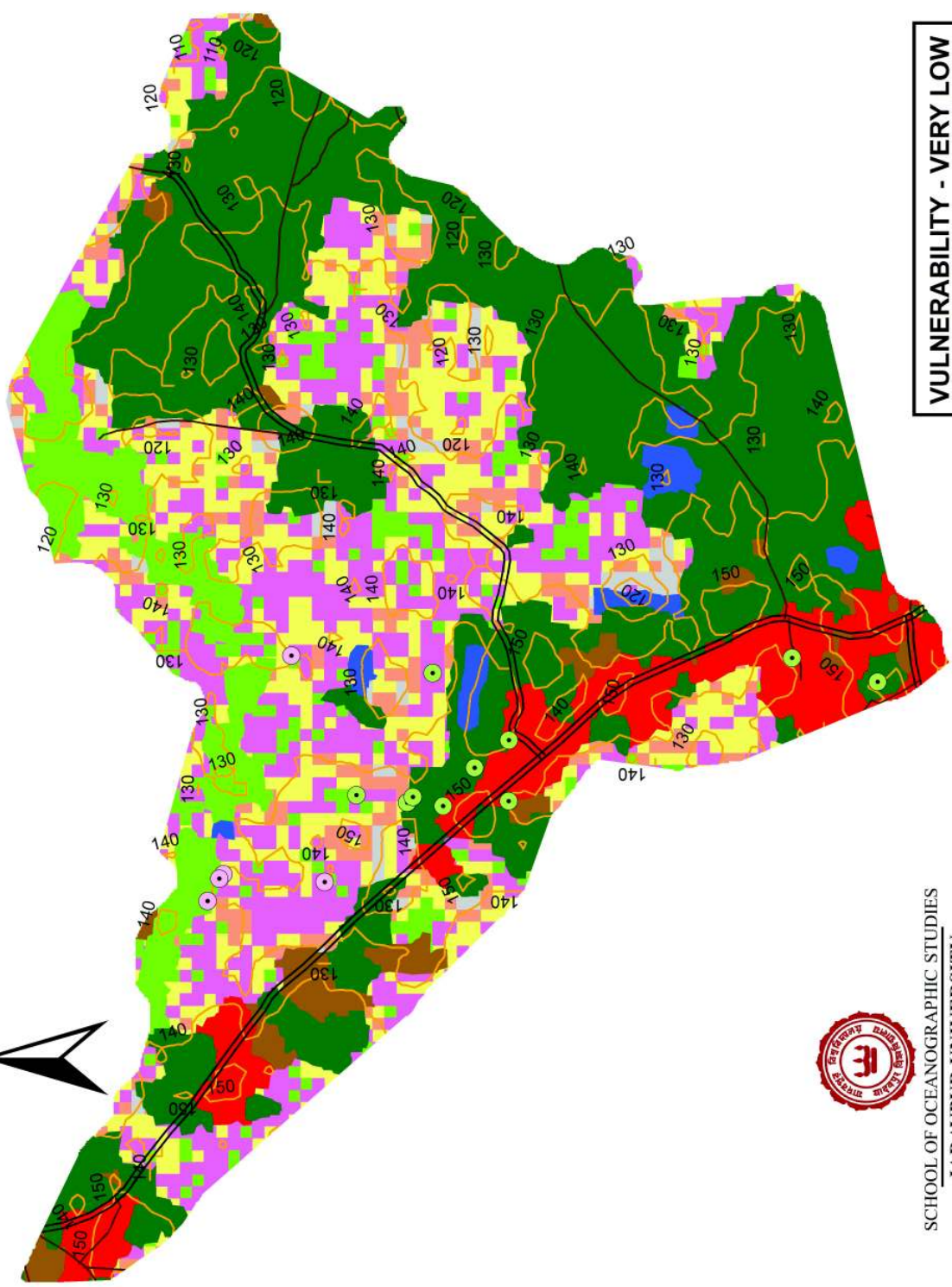
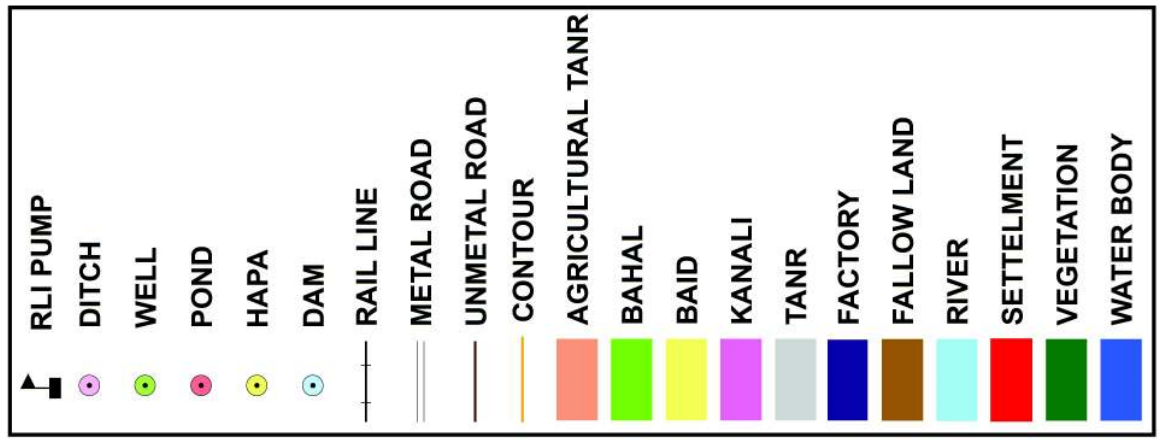
23°21'30"N

SALUNI



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VULNERABILITY - VERY LOW
RISK - LOW



86°55'0"E 86°55'30"E 86°56'0"E 86°56'30"E

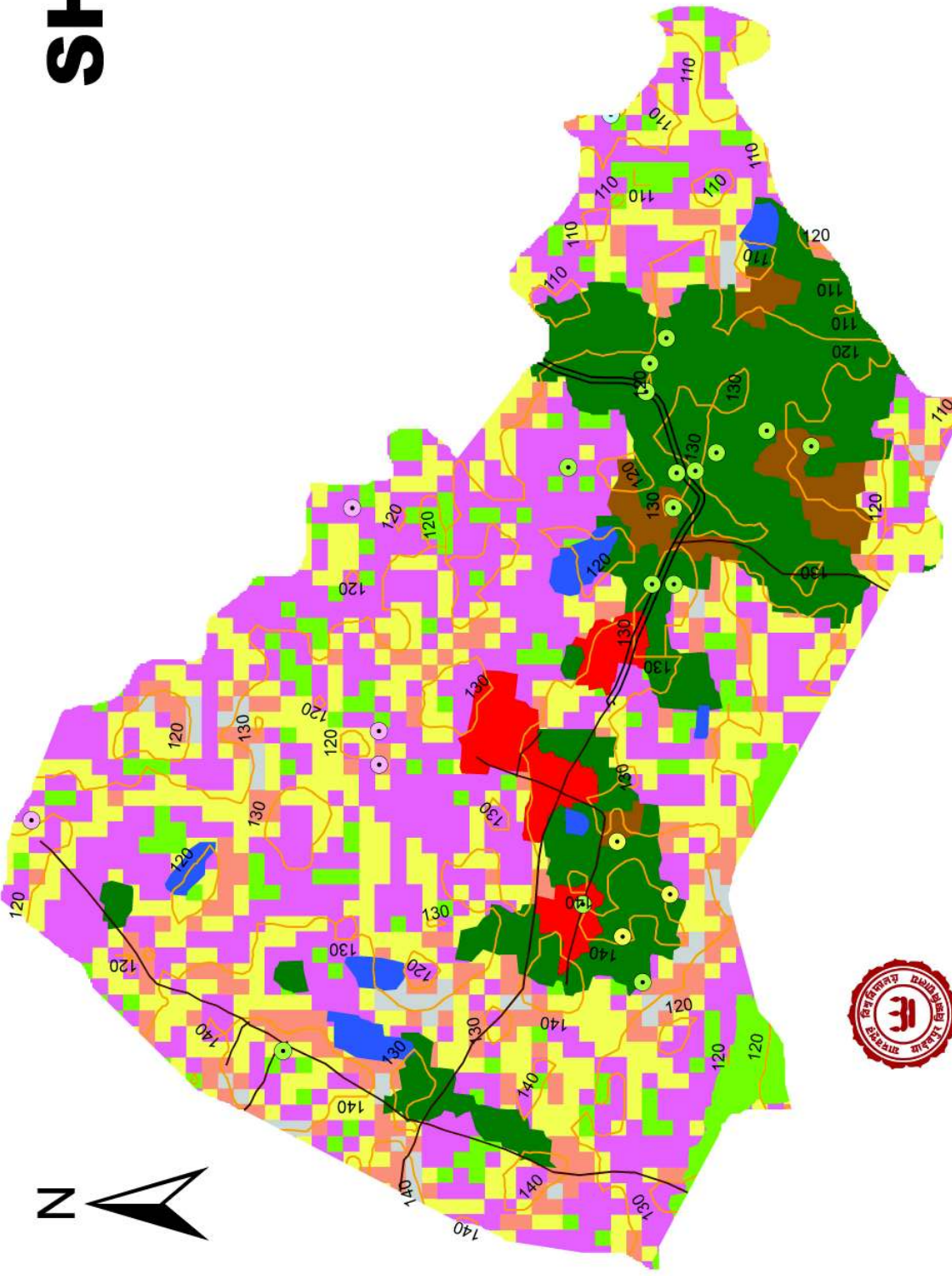
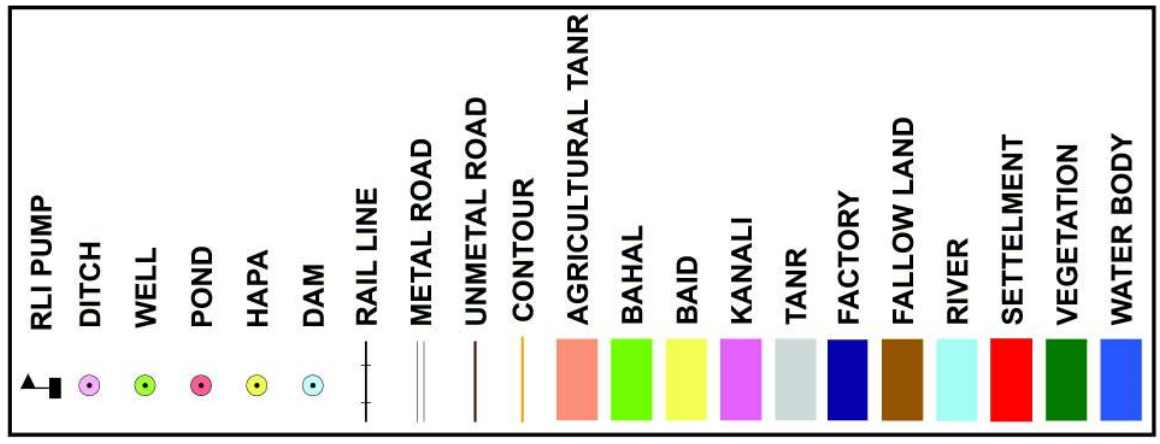
86°55'0"E 86°55'30"E 86°56'0"E 86°56'30"E

23°22'30"N 23°23'0"N 23°23'30"N

23°22'30"N 23°23'0"N 23°23'30"N



SHIRPURA



VULNERABILITY - HIGH
RISK - VERY HIGH



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86°55'0"E 86°55'30"E 86°56'0"E 86°56'30"E

86°55'0"E 86°55'30"E 86°56'0"E 86°56'30"E

86°53'0"E

86°53'30"E

86°54'0"E

86°54'30"E

86°55'0"E

86°55'30"E



SHUARA BAKRA

23°19'0"N

23°18'30"N

23°18'0"N

23°18'0"N

23°19'0"N

23°18'0"N

23°18'0"N

23°18'0"N

23°18'0"N

23°18'0"N

23°18'0"N

23°18'0"N



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0

0.35

0.7

1.4

2.1

2.8

Kilometers

0

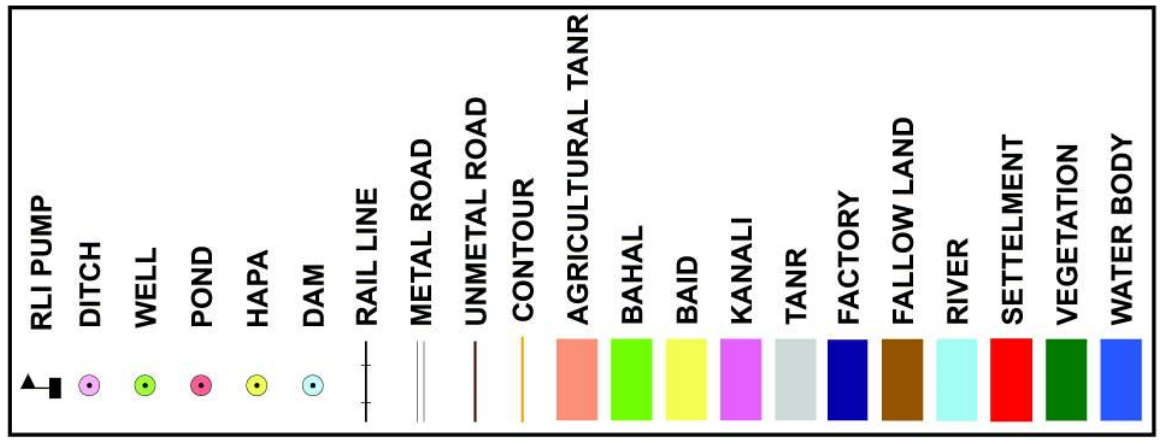
0.35

0.7

1.4

2.1

2.8



VULNERABILITY - MODERATE
RISK - HIGH

86°53'0"E

86°53'30"E

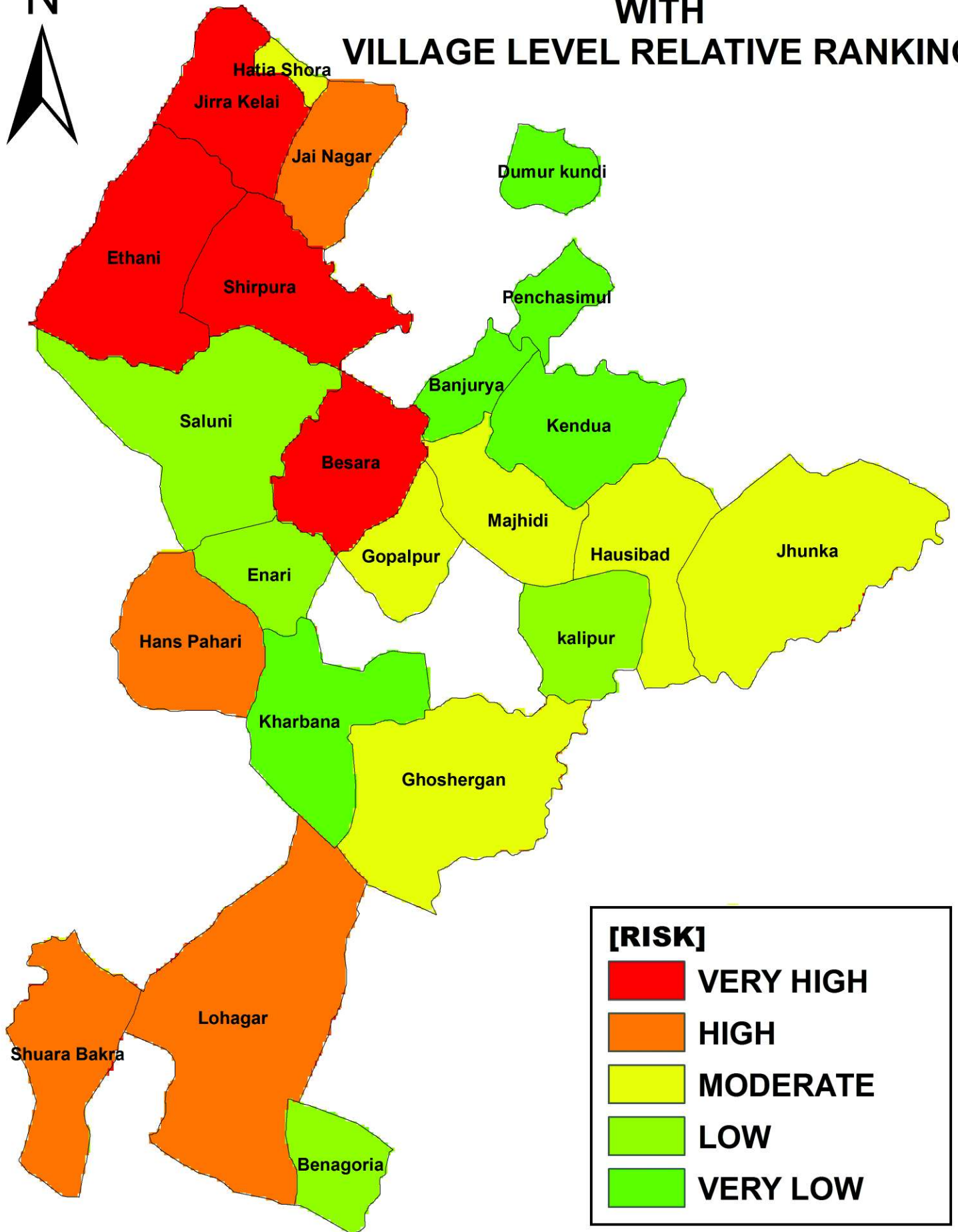
86°54'0"E

86°54'30"E






86°55'0"E

86°55'30"E

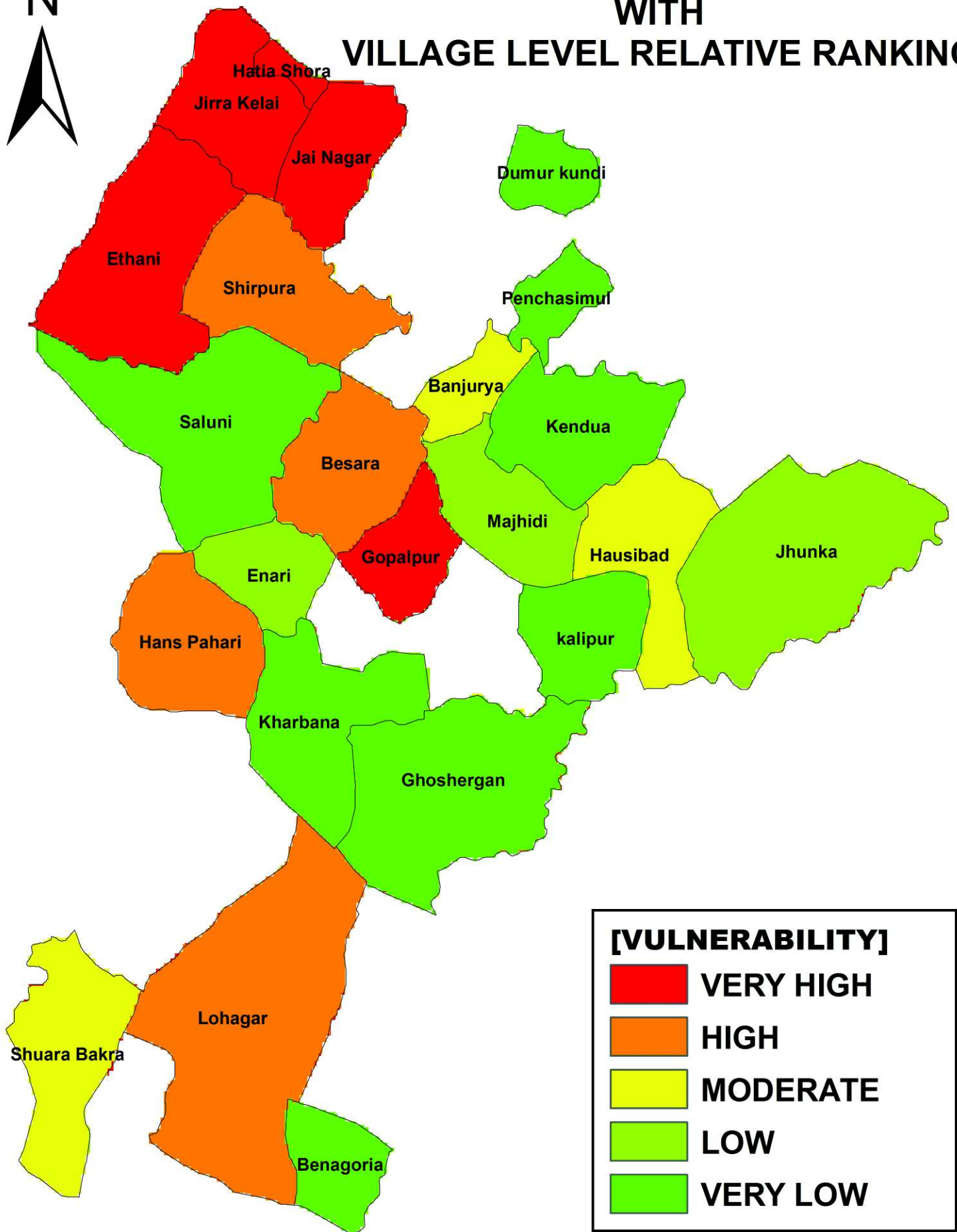
RISK MAP WITH VILLAGE LEVEL RELATIVE RANKING



[RISK]

-  VERY HIGH
-  HIGH
-  MODERATE
-  LOW
-  VERY LOW

VULNERABILITY MAP WITH VILLAGE LEVEL RELATIVE RANKING



[VULNERABILITY]

 VERY HIGH

 HIGH

 MODERATE

 LOW

 VERY LOW

Purulia District Map



**Working
Villages of Purulia**

86°39'30"E

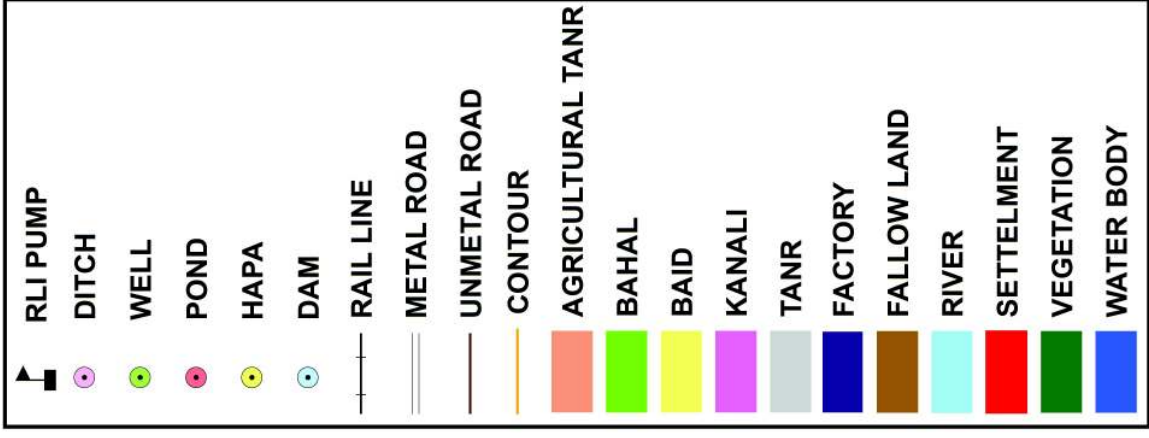
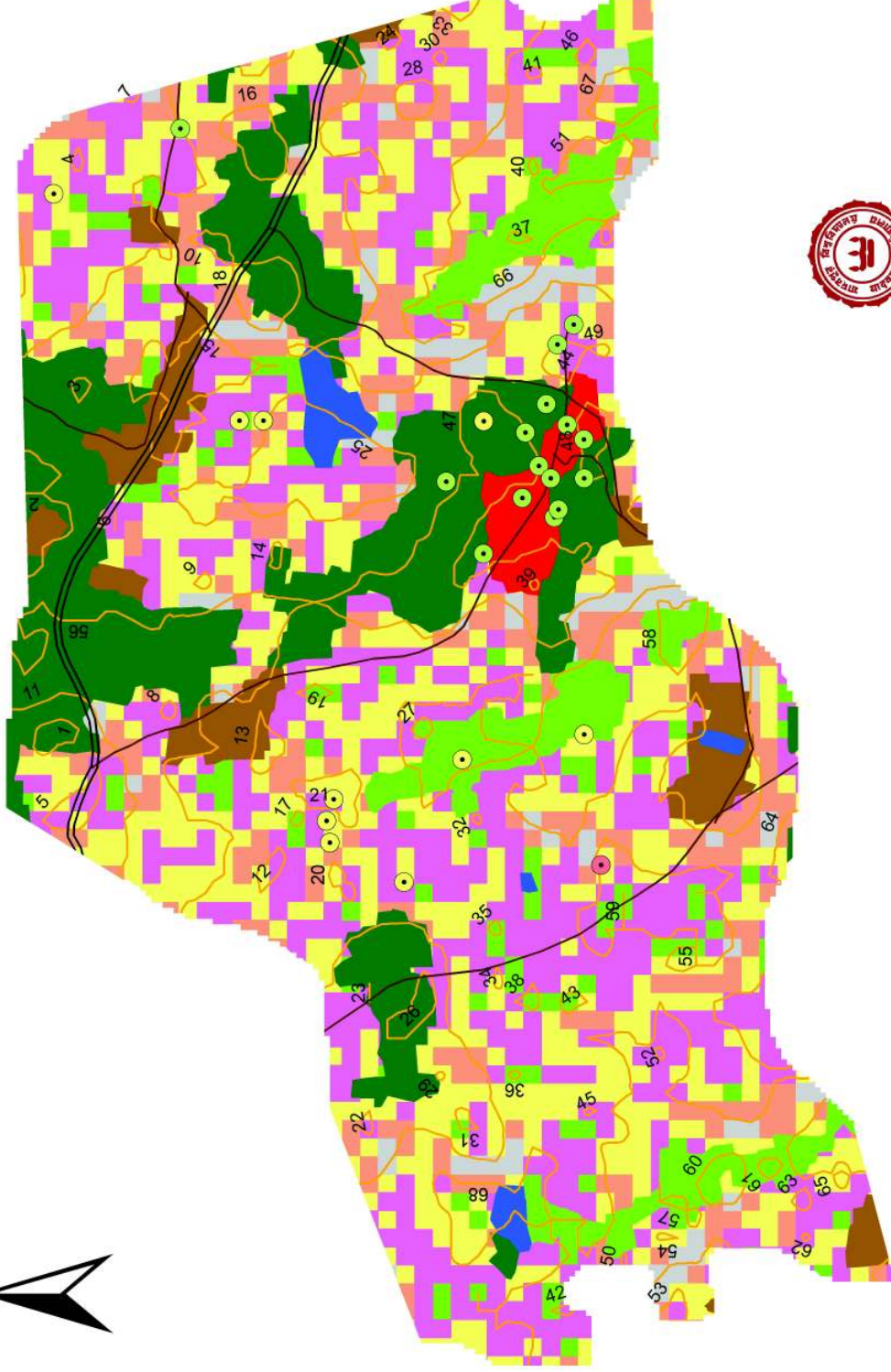
86°40'0"E

86°40'30"E

86°41'0"E



KASHIDI



VULNERABILITY - VERY HIGH
RISK - HIGH



SCHOOL OF OCEANOGRAPHIC STUDIES
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23°20'30"N

23°21'0"N

23°20'30"N

86°39'30"E

86°40'0"E

86°40'30"E

86°41'0"E

23°23'30"N

86°41'0"E

86°41'30"E

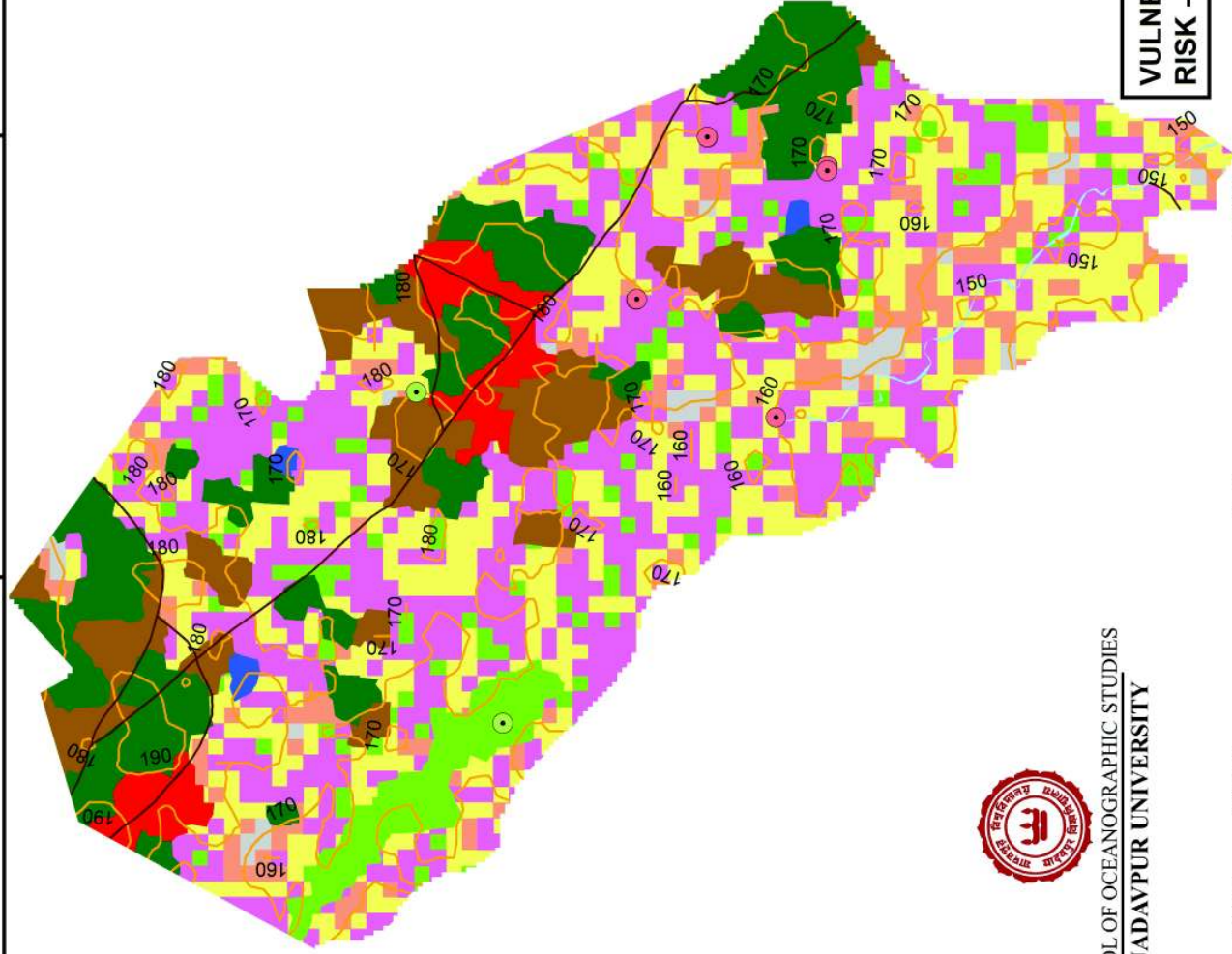
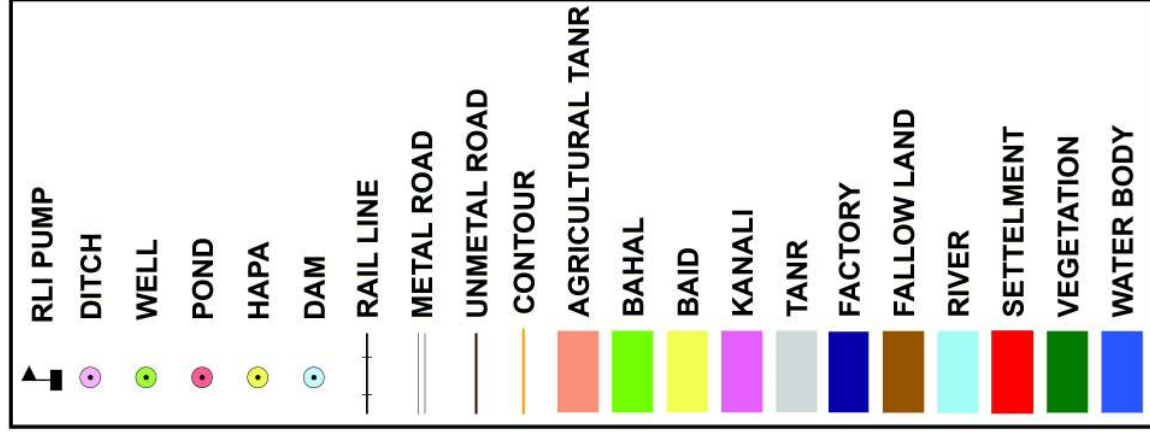
86°42'0"E

86°42'30"E

86°43'0"E



LAJHAN



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VULNERABILITY - HIGH
RISK - MODERATE



23°23'0"N

86°41'0"E

86°41'30"E

86°42'0"E

86°42'30"E

86°43'0"E

23°22'30"N

86°41'30"E

86°42'0"E

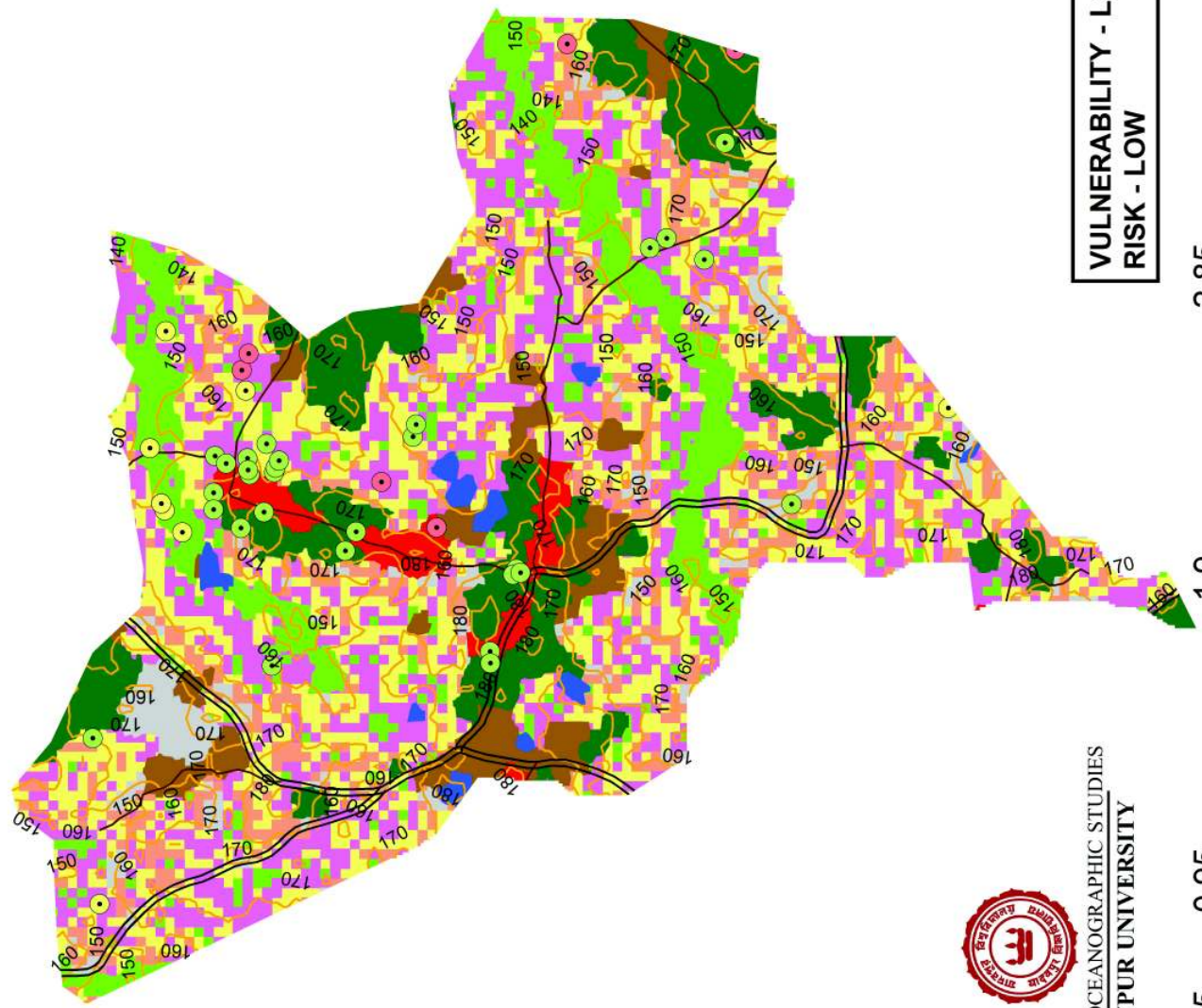
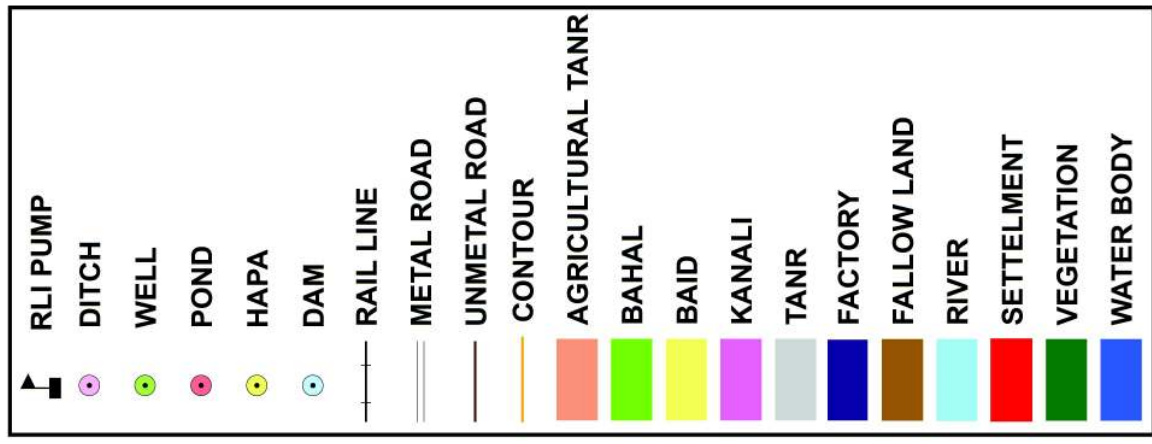
86°42'30"E

86°43'0"E

86°44'30"E 86°45'0"E 86°45'30"E 86°46'0"E 86°46'30"E 86°47'0"E 86°47'30"E



LARA



SCHOOL OF OCEANOGRAPHIC STUDIES
JADAVPUR UNIVERSITY



23°20'0"N 23°20'30"N 23°21'0"N 23°21'30"N

86°41'0"E

86°41'30"E

86°42'0"E

86°42'30"E

86°43'0"E

86°43'30"E

23°19'30"N

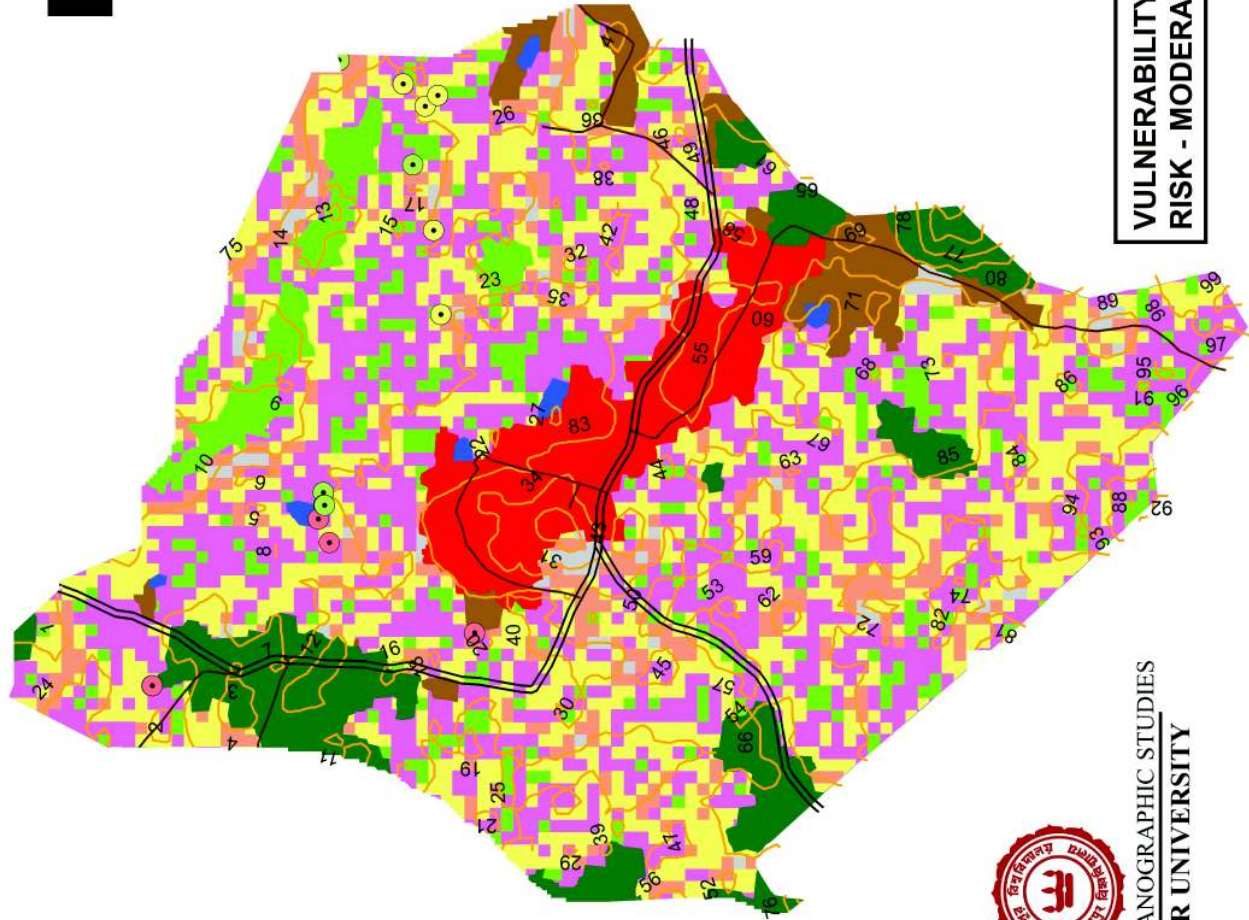
23°19'0"N

23°18'30"N

23°18'0"N



PABRA PAHARI



	RLI PUMP
	DITCH
	WELL
	POND
	HAPA
	DAM
	RAIL LINE
	METAL ROAD
	UNMETAL ROAD
	CONTOUR
	AGRICULTURAL TANR
	BAHAL
	BAID
	KANALI
	TANR
	FACTORY
	FALLOW LAND
	RIVER
	SETTELMENT
	VEGETATION
	WATER BODY



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VULNERABILITY - MODERATE
RISK - MODERATE



86°41'0"E

86°41'30"E

86°42'0"E

86°42'30"E

86°43'0"E

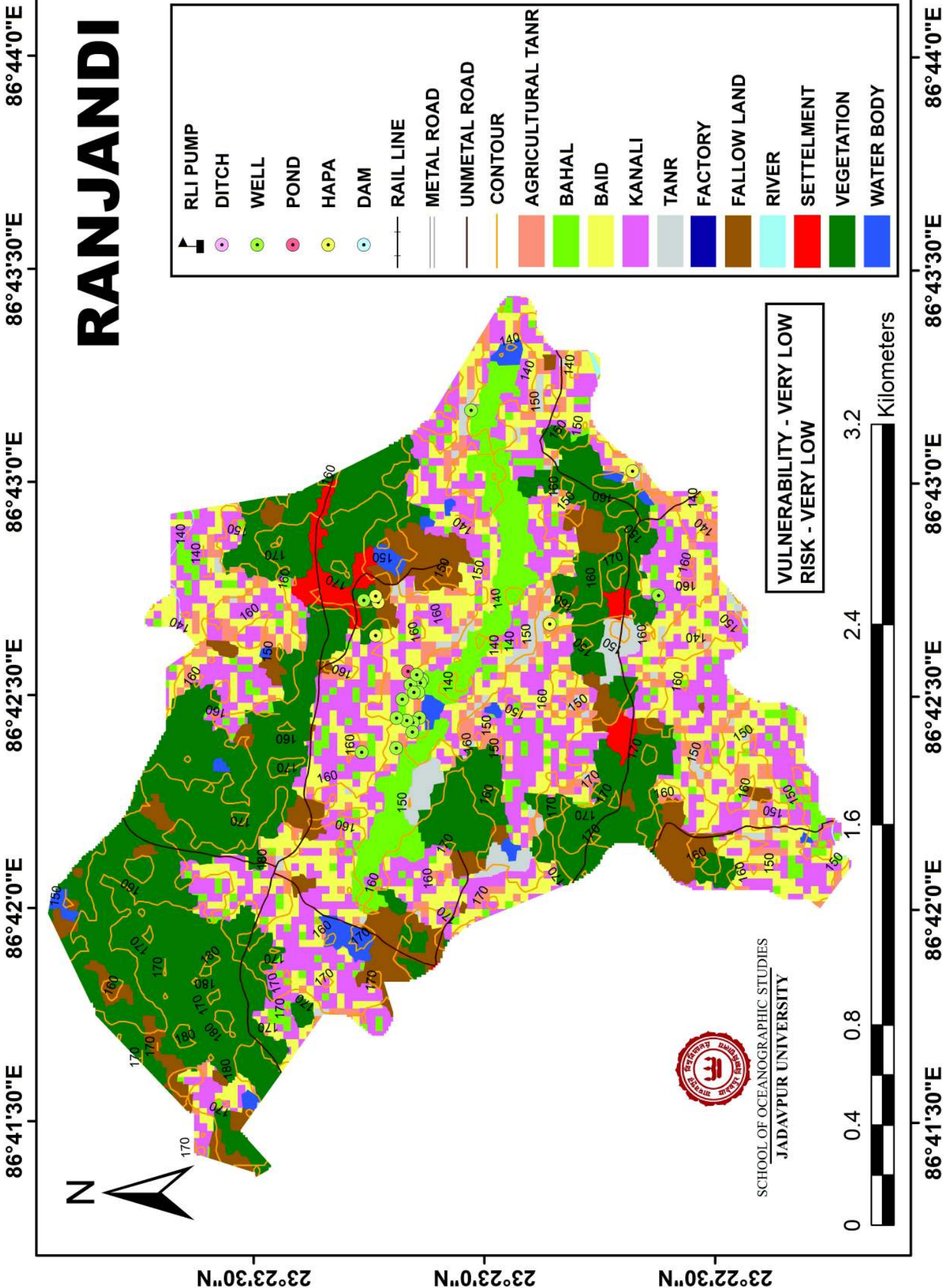
86°43'30"E

23°19'30"N

23°19'0"N

23°18'30"N

23°18'0"N



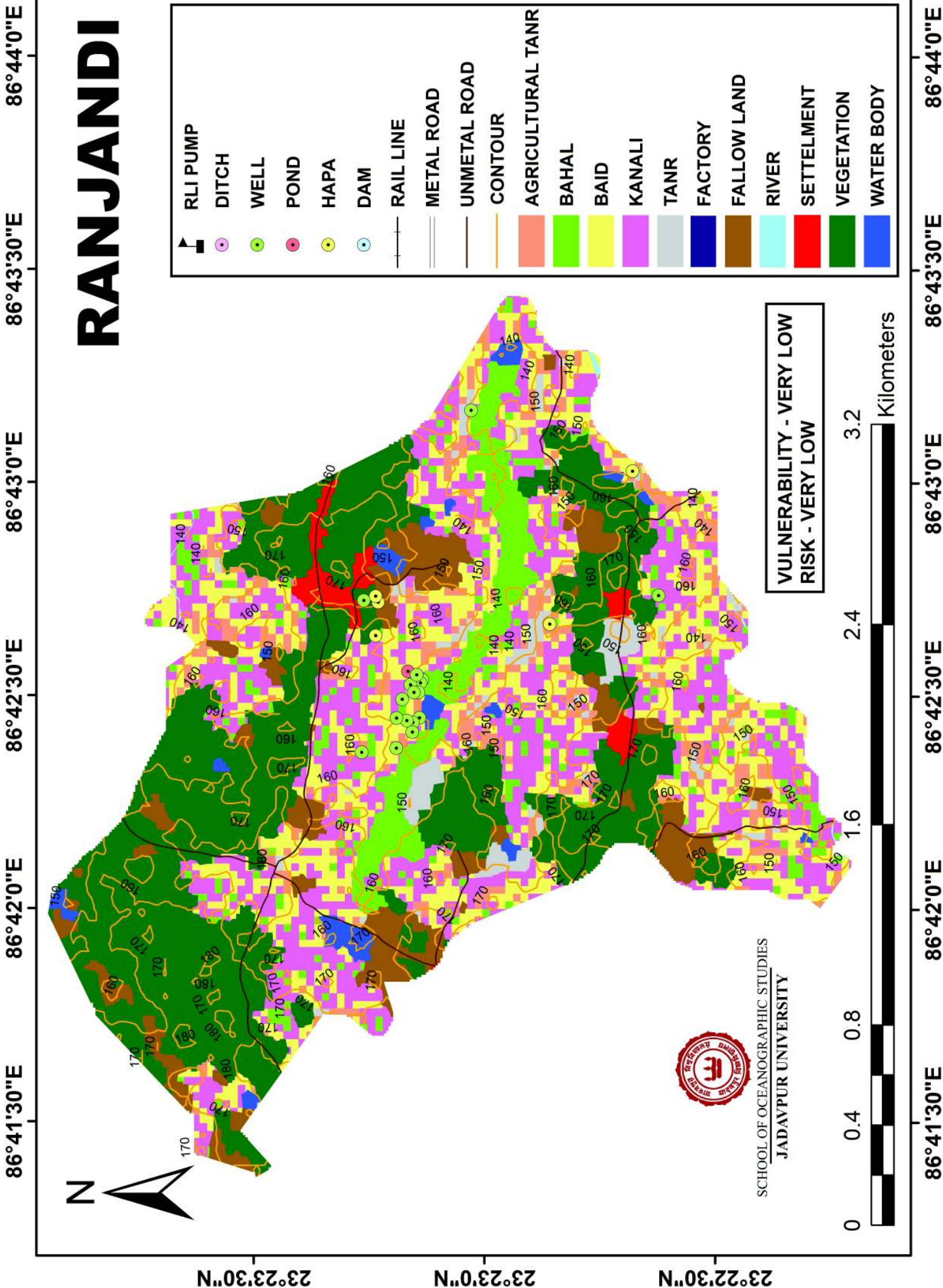
RANJANDI

- RLI PUMP
- DITCH
- WELL
- POND
- HAPA
- DAM
- RAIL LINE
- METAL ROAD
- UNMETAL ROAD
- CONTOUR
- AGRICULTURAL TANR
- BAHAL
- BAID
- KANALI
- TANR
- FACTORY
- FALLOW LAND
- RIVER
- SETTELMENT
- VEGETATION
- WATER BODY

VULNERABILITY - VERY LOW
RISK - VERY LOW



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86°40'0"E

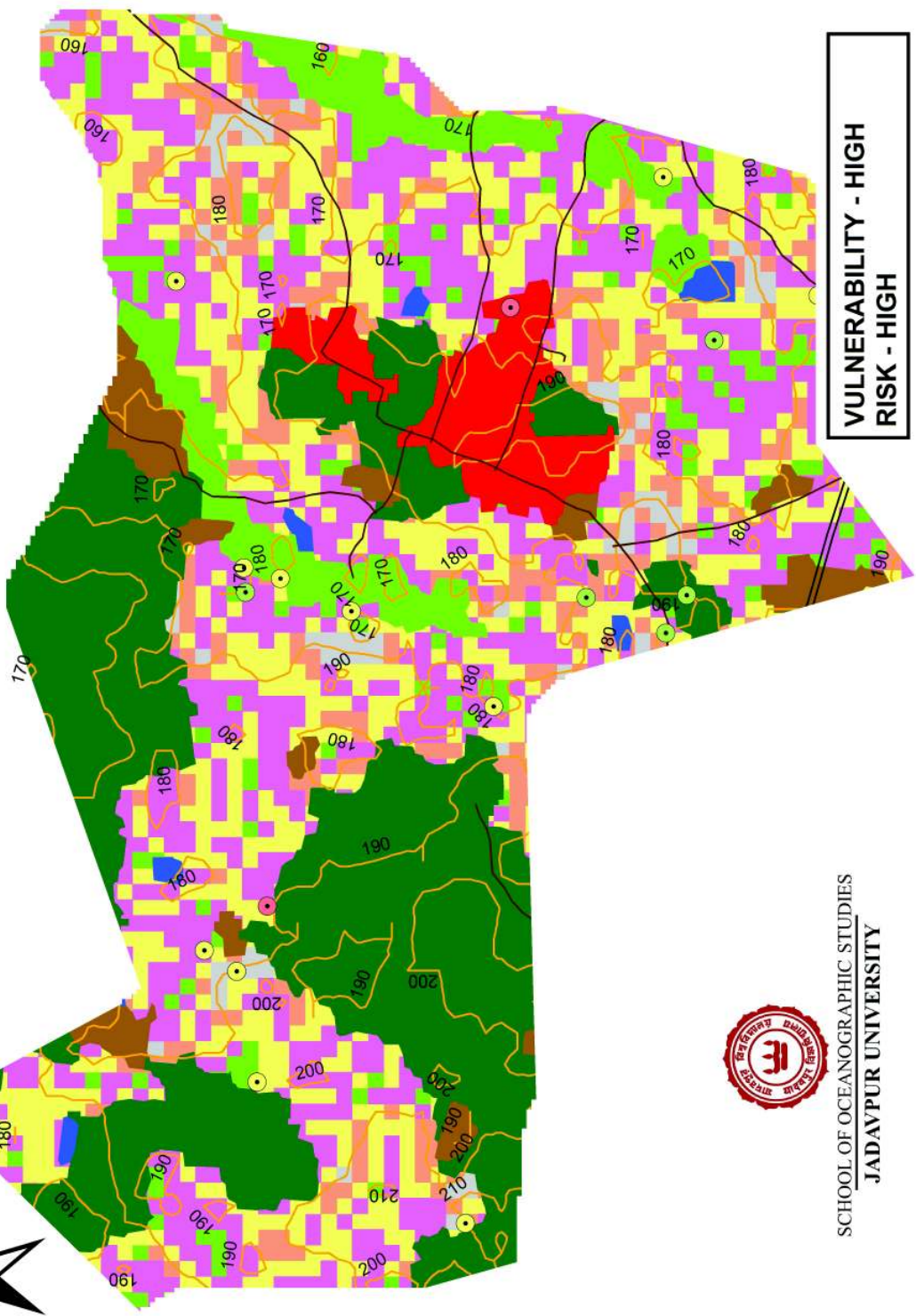
86°40'30"E

86°41'0"E

86°41'30"E



SEJA



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VULNERABILITY - HIGH
RISK - HIGH



	RLI PUMP
	DITCH
	WELL
	POND
	HAPA
	DAM
	RAIL LINE
	METAL ROAD
	UNMETAL ROAD
	CONTOUR
	AGRICULTURAL TANR
	BAHAL
	BAID
	KANALI
	TANR
	FACTORY
	FALLOW LAND
	RIVER
	SETTELMENT
	VEGETATION
	WATER BODY

23°21'0"N

23°21'30"N

23°22'0"N

86°40'0"E

86°40'30"E

86°41'0"E

86°41'30"E

86°39'0"E

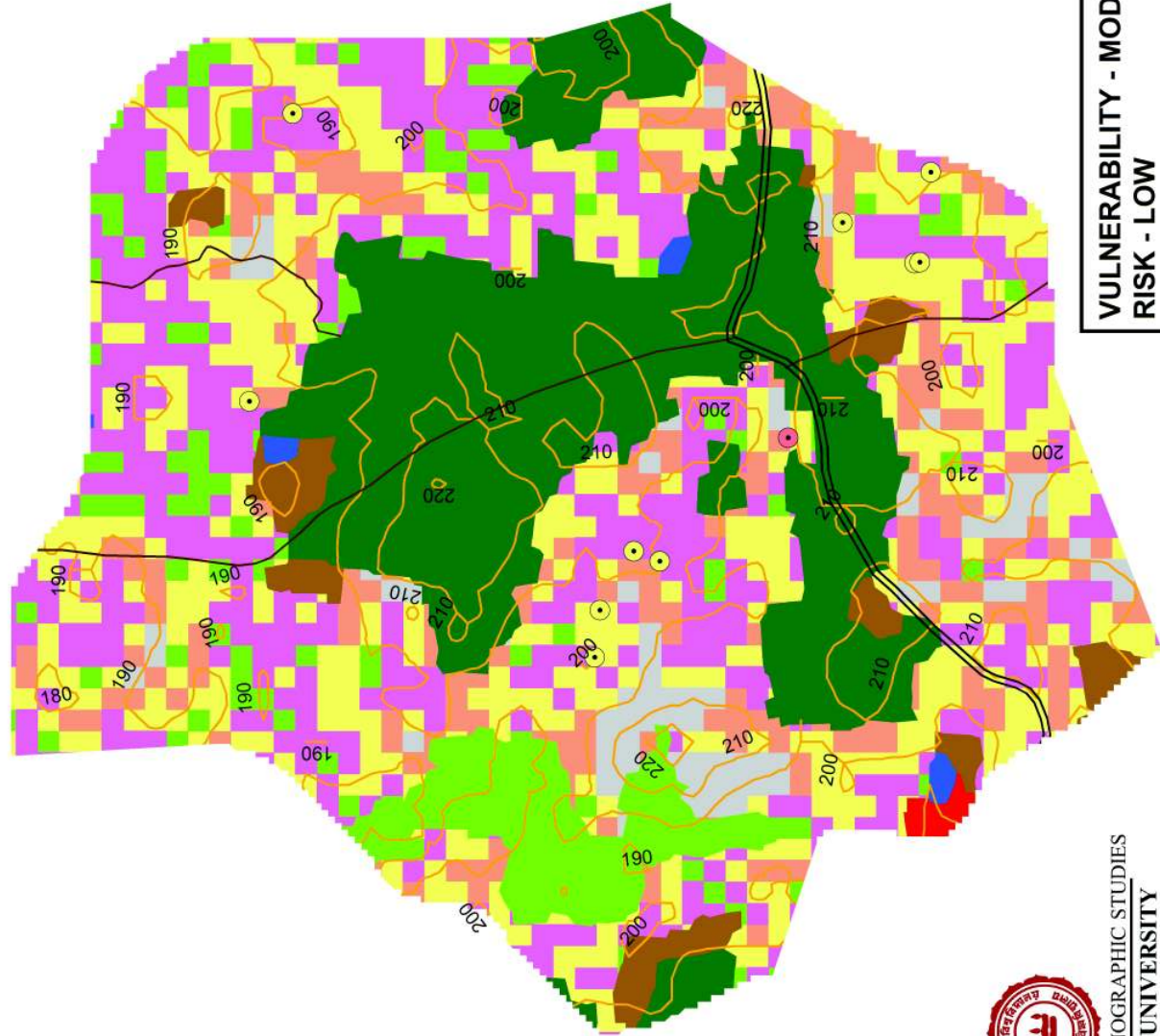
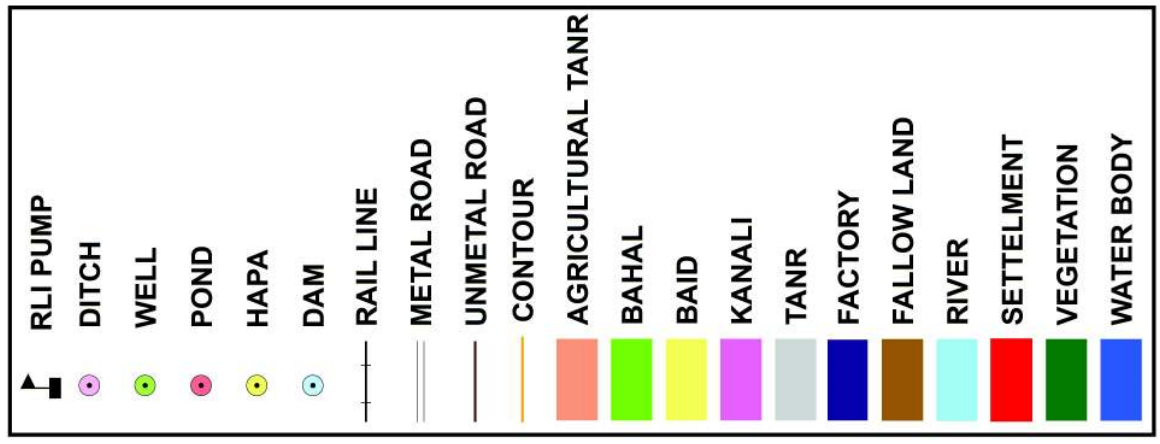
86°39'30"E

86°40'0"E

86°40'30"E



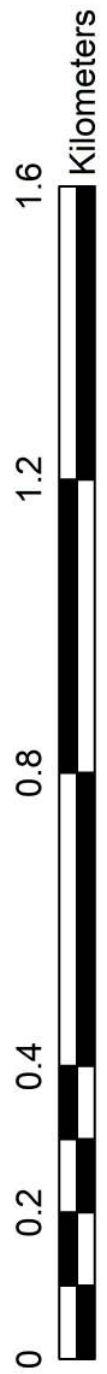
SUNRA



**VULNERABILITY - MODERATE
RISK - LOW**



SCHOOL OF OCEANOGRAPHIC STUDIES
JADAVPUR UNIVERSITY



86°39'0"E

86°39'30"E

86°40'0"E

86°40'30"E

23°21'0"N

23°21'30"N

23°21'0"N

23°21'30"N

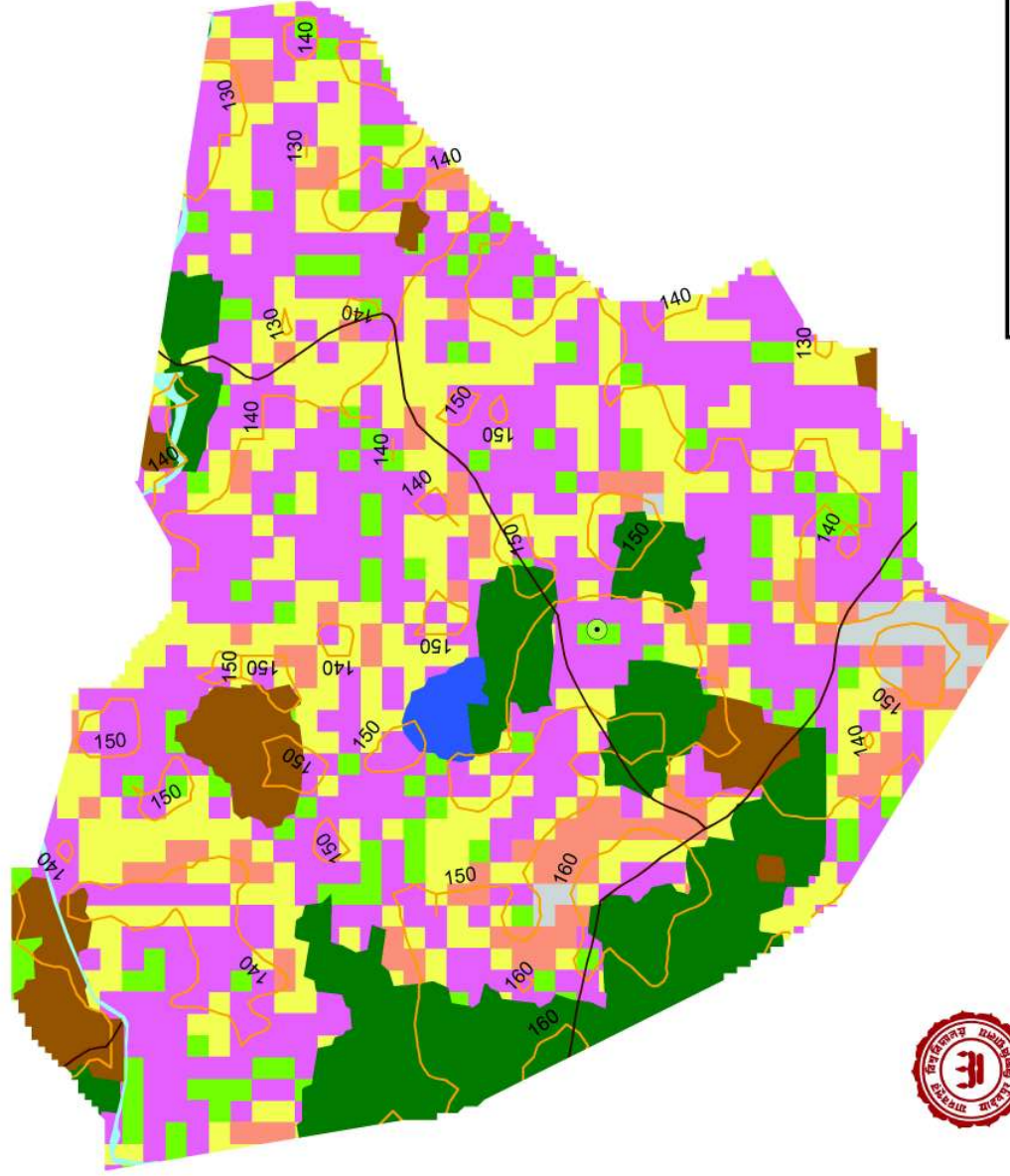
86°43'0"E

86°43'30"E

86°44'0"E



TILABANI



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VULNERABILITY - VERY LOW
RISK - VERY LOW



86°43'0"E

86°43'30"E

86°44'0"E

23°23'30"N

23°23'0"N

23°23'30"N

23°23'0"N

23°21'30"N 23°22'0"N 23°22'30"N 23°23'0"N

86°42'0"E 86°42'30"E 86°43'0"E 86°43'30"E

86°42'0"E 86°42'30"E 86°43'0"E 86°43'30"E

86°42'0"E 86°42'30"E 86°43'0"E 86°43'30"E

86°42'0"E 86°42'30"E 86°43'0"E 86°43'30"E

86°42'0"E 86°42'30"E 86°43'0"E 86°43'30"E

86°42'0"E 86°42'30"E 86°43'0"E 86°43'30"E

23°21'30"N 23°22'0"N 23°22'30"N 23°23'0"N

86°42'0"E 86°42'30"E 86°43'0"E 86°43'30"E

86°42'0"E 86°42'30"E 86°43'0"E 86°43'30"E

86°42'0"E 86°42'30"E 86°43'0"E 86°43'30"E

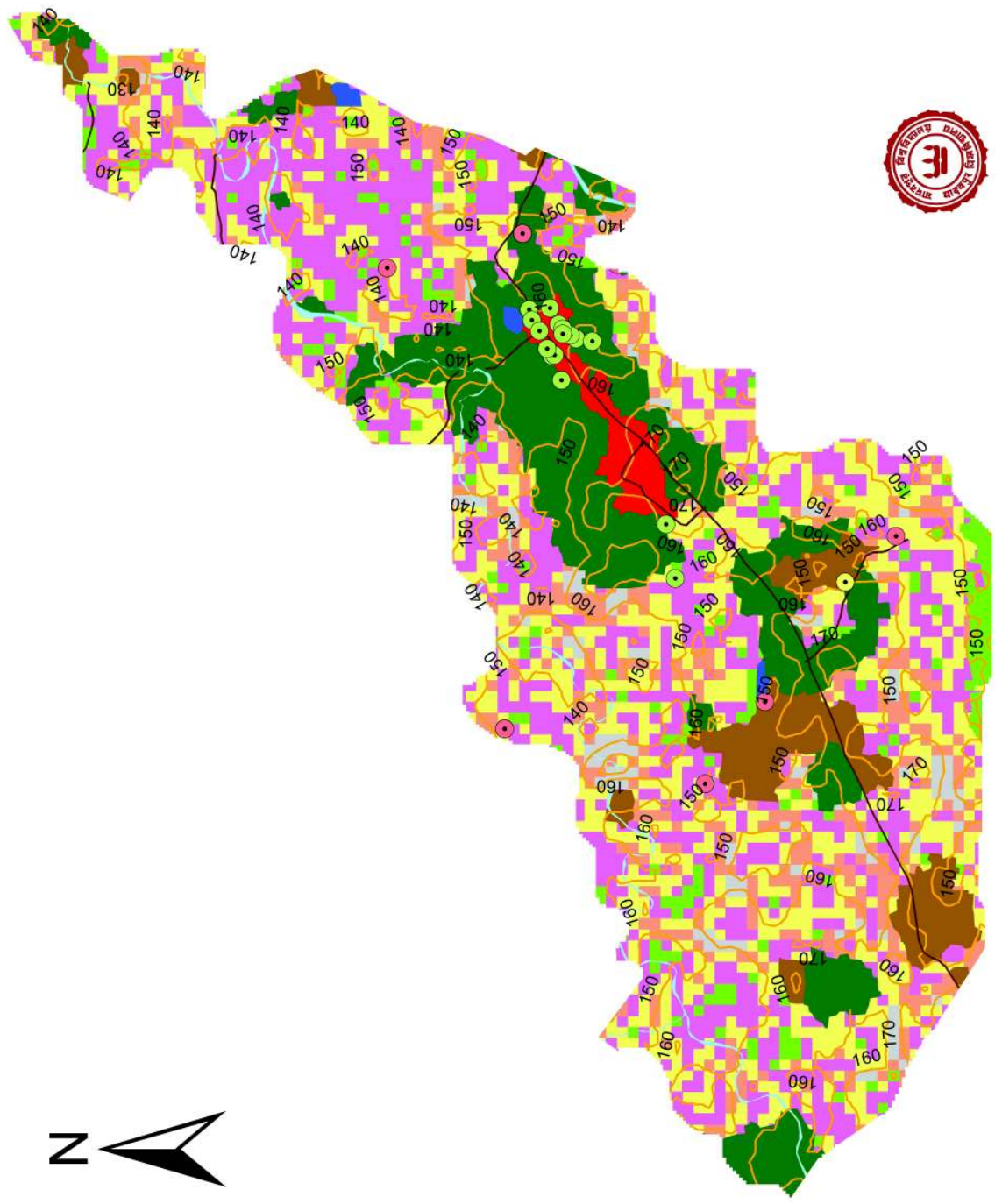
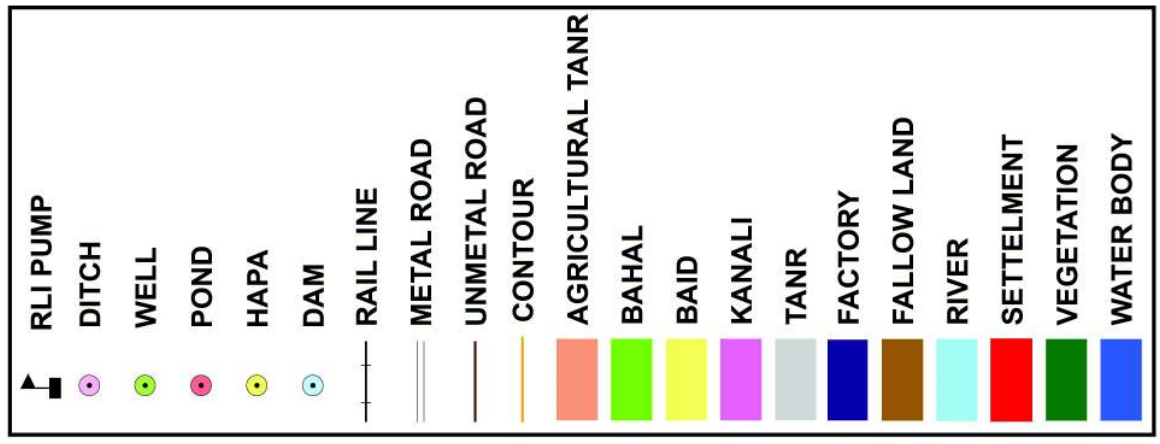
86°42'0"E 86°42'30"E 86°43'0"E 86°43'30"E

86°42'0"E 86°42'30"E 86°43'0"E 86°43'30"E

86°42'0"E 86°42'30"E 86°43'0"E 86°43'30"E

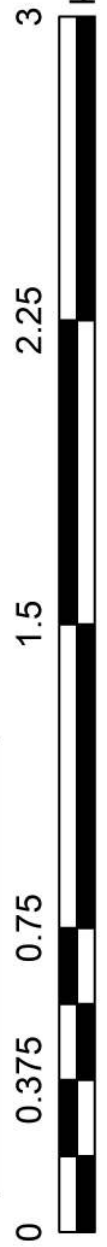


BHATIN



SCHOOL OF OCEANOGRAPHIC STUDIES
JADAVPUR UNIVERSITY

VULNERABILITY - HIGH
RISK - HIGH



86°42'0"E 86°42'30"E 86°43'0"E 86°43'30"E

86°42'0"E 86°42'30"E 86°43'0"E 86°43'30"E

86°42'0"E 86°42'30"E 86°43'0"E 86°43'30"E

86°42'0"E 86°42'30"E 86°43'0"E 86°43'30"E

86°42'0"E 86°42'30"E 86°43'0"E 86°43'30"E

86°42'0"E 86°42'30"E 86°43'0"E 86°43'30"E

86°43'30"E

86°44'0"E

86°44'30"E

86°45'0"E

86°45'30"E

23°24'30"N

23°24'0"N

23°23'30"N

23°24'30"N

23°24'0"N

23°23'30"N

86°43'30"E

86°44'0"E

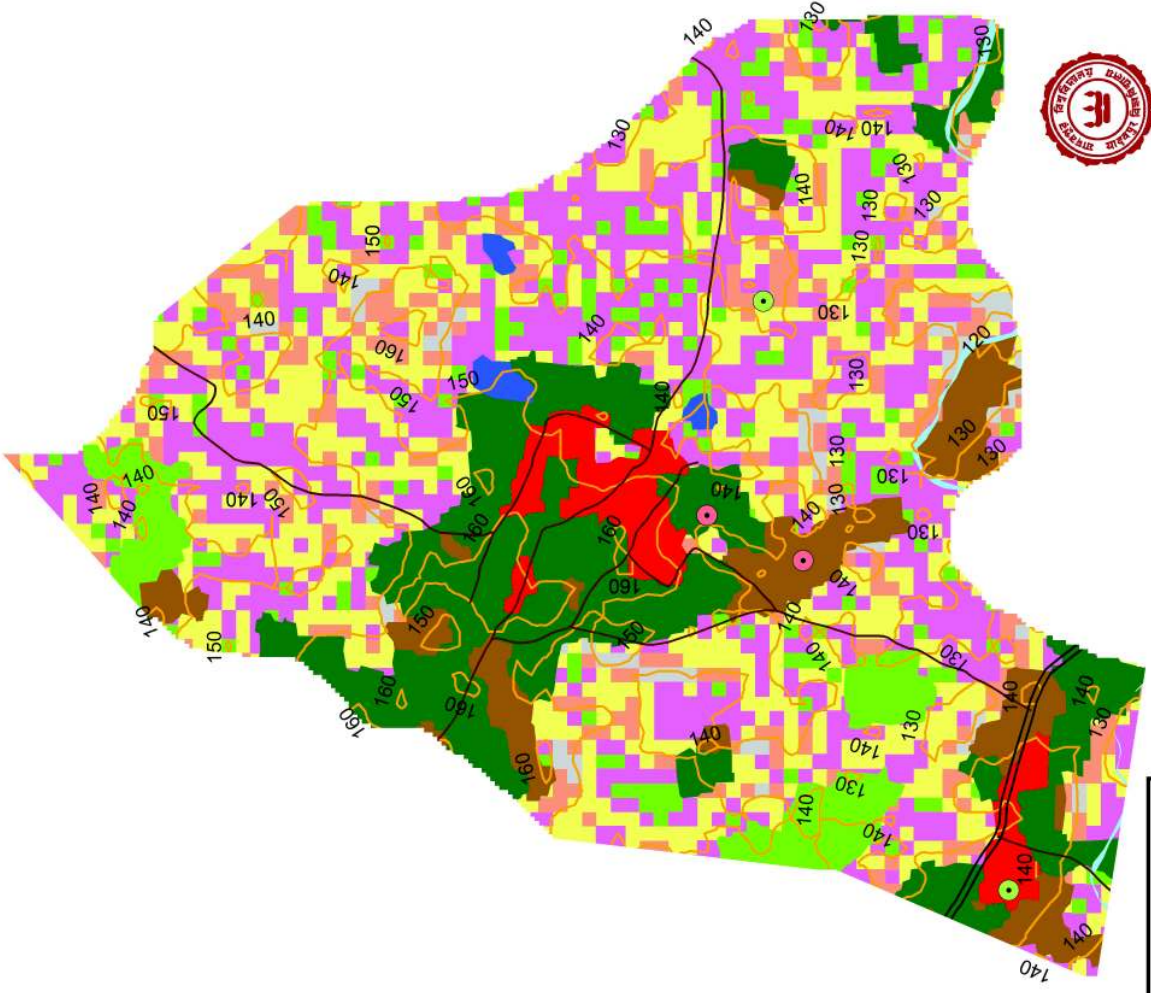
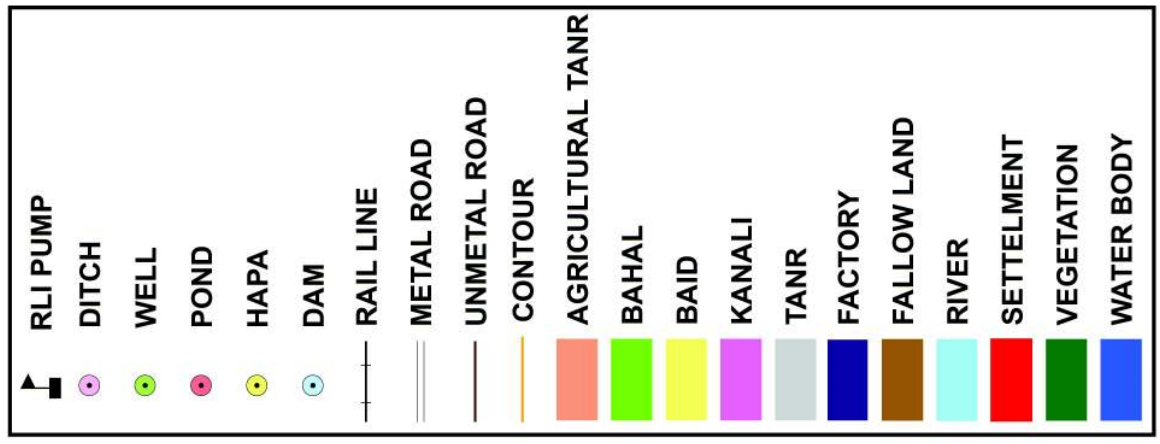
86°44'30"E

86°45'0"E

86°45'30"E

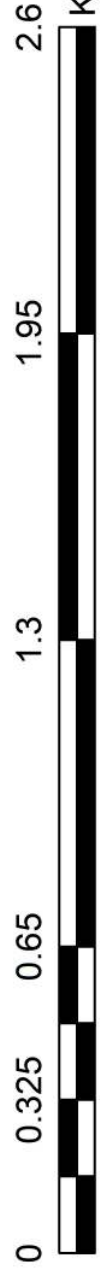


BODMA



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JADAVPUR UNIVERSITY

VULNERABILITY - VERY HIGH
RISK - VERY HIGH



86°41'0"E

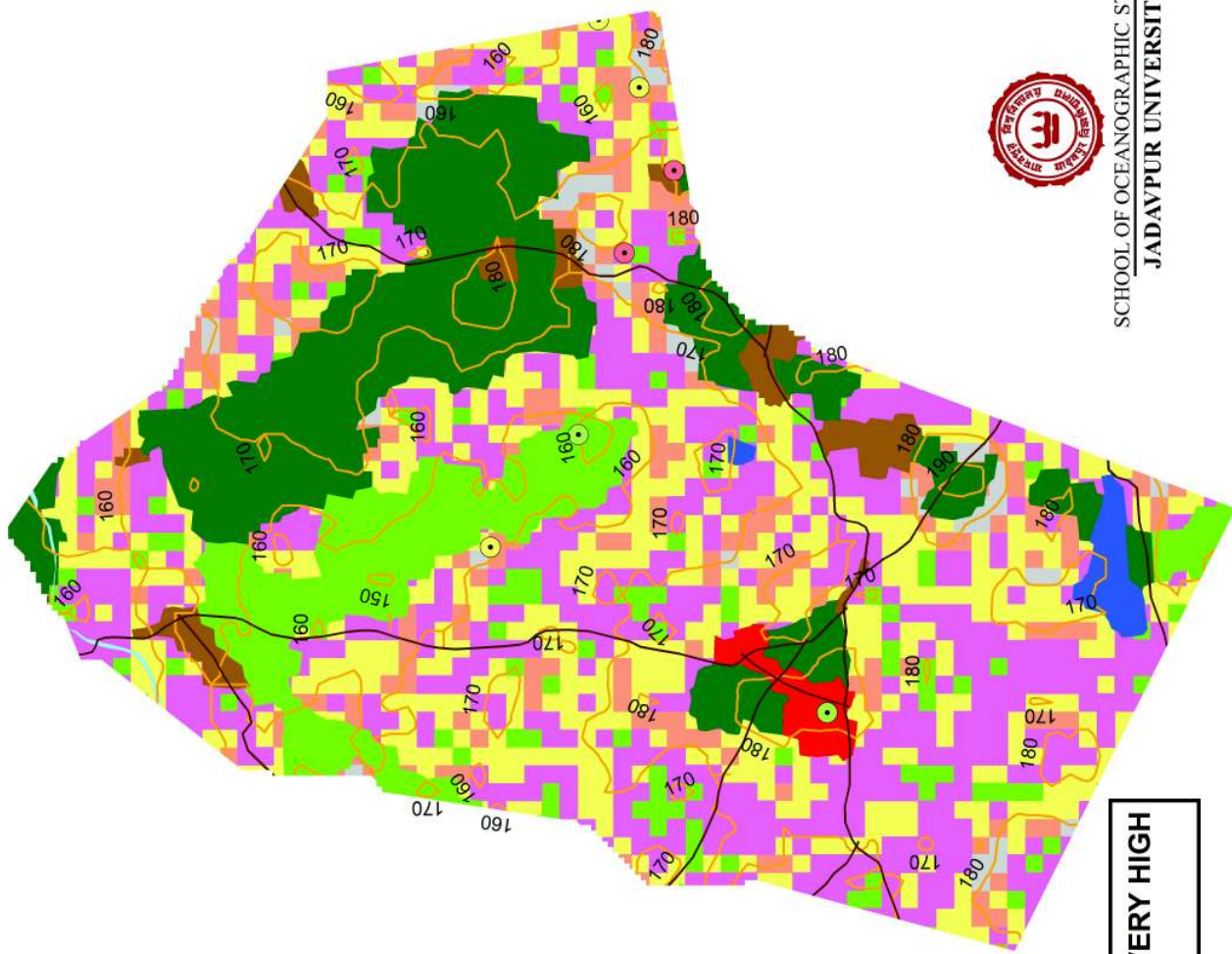
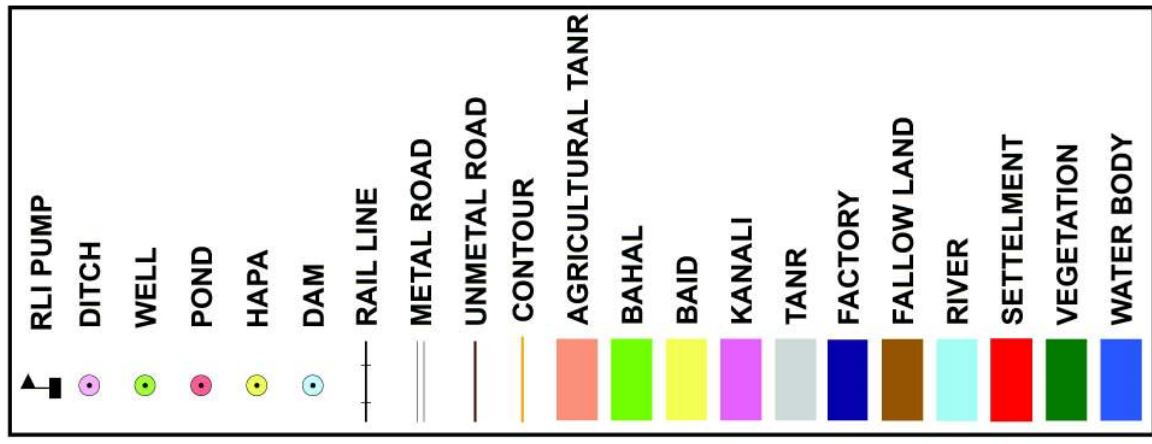
86°41'30"E

86°42'0"E

86°42'30"E



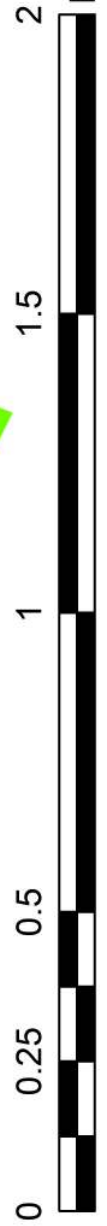
CHAKA



VULNERABILITY - VERY HIGH
RISK - MODERATE



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 JADAVPUR UNIVERSITY



86°41'0"E

86°41'30"E

86°42'0"E

86°42'30"E

23°21'0"N

23°21'30"N

23°21'0"N

23°21'30"N

86°47'0"E

86°47'30"E

86°48'0"E

86°48'30"E

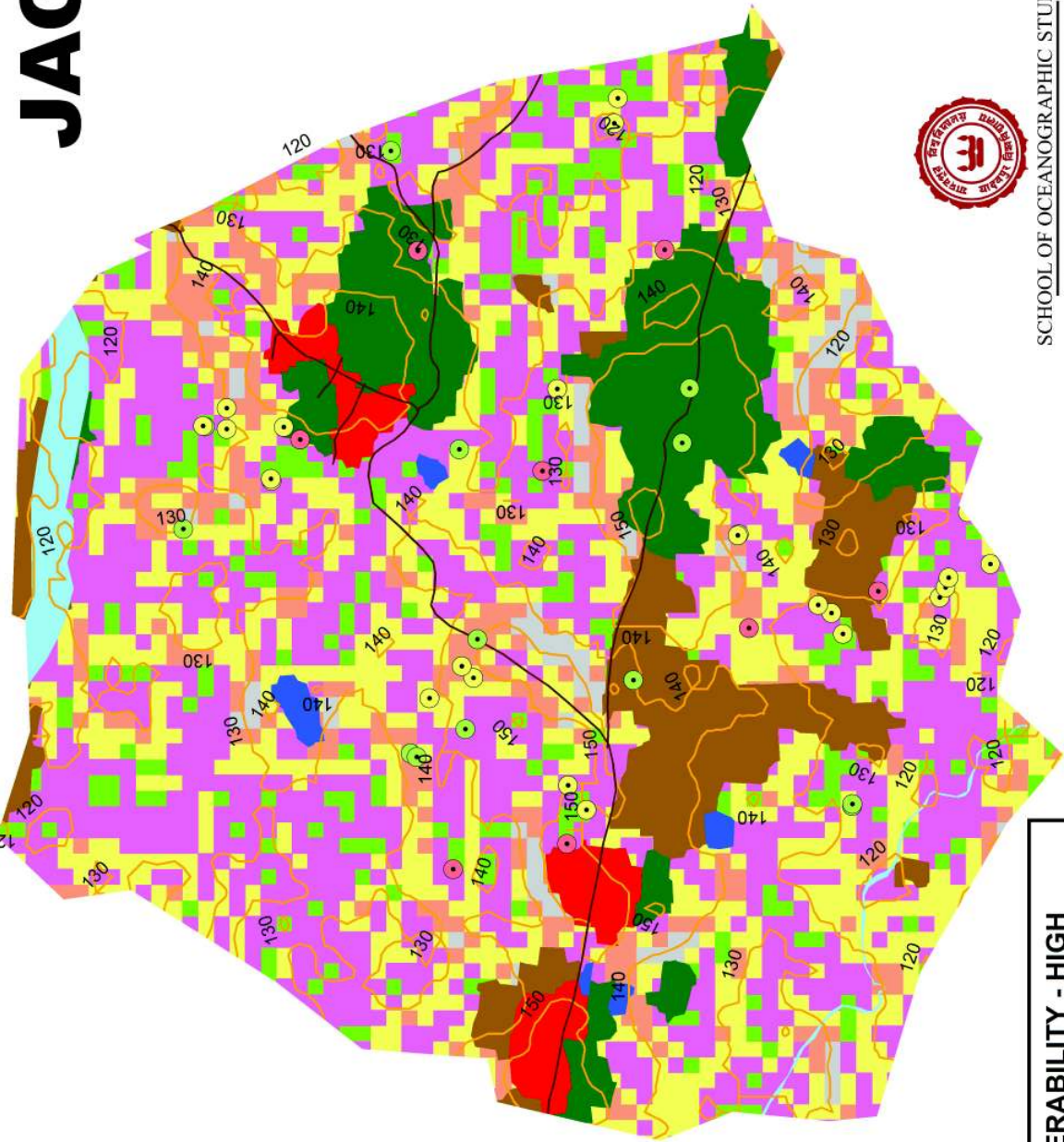
86°49'0"E

23°22'0"N

23°21'30"N

23°22'0"N

23°21'30"N



JAGANNATHDI

RLI PUMP	RAIL LINE	AGRICULTURAL TANR
DITCH	METAL ROAD	BAHAL
WELL	UNMETAL ROAD	BAID
POND	CONTOUR	KANALI
HAPA		TANR
DAM		FACTORY
		FALLOW LAND
		RIVER
		SETTELMENT
		VEGETATION
		WATER BODY



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VULNERABILITY - HIGH
RISK - MODERATE



86°47'0"E

86°47'30"E

86°48'0"E

86°48'30"E

86°49'0"E

86°46'30"E

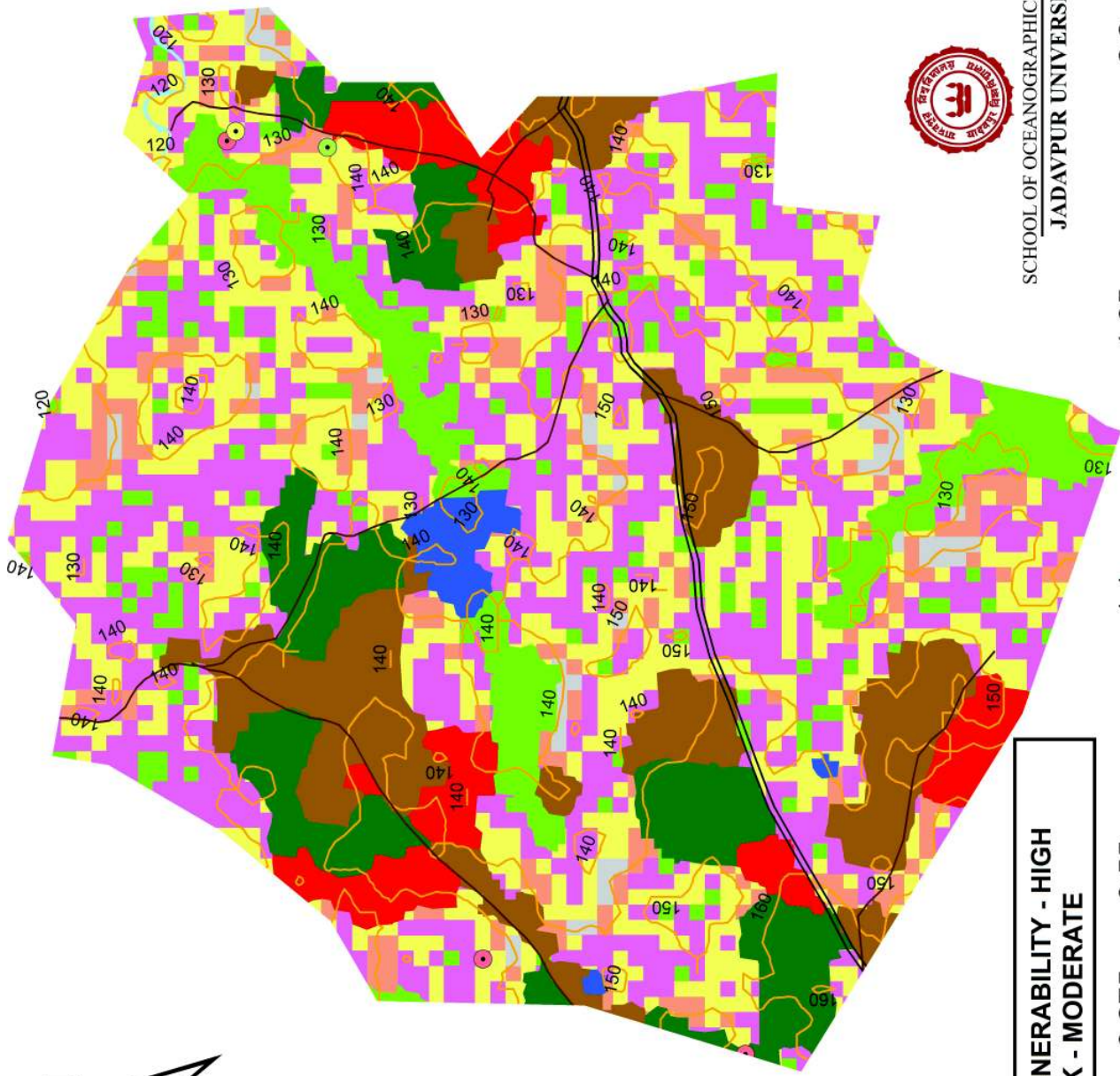
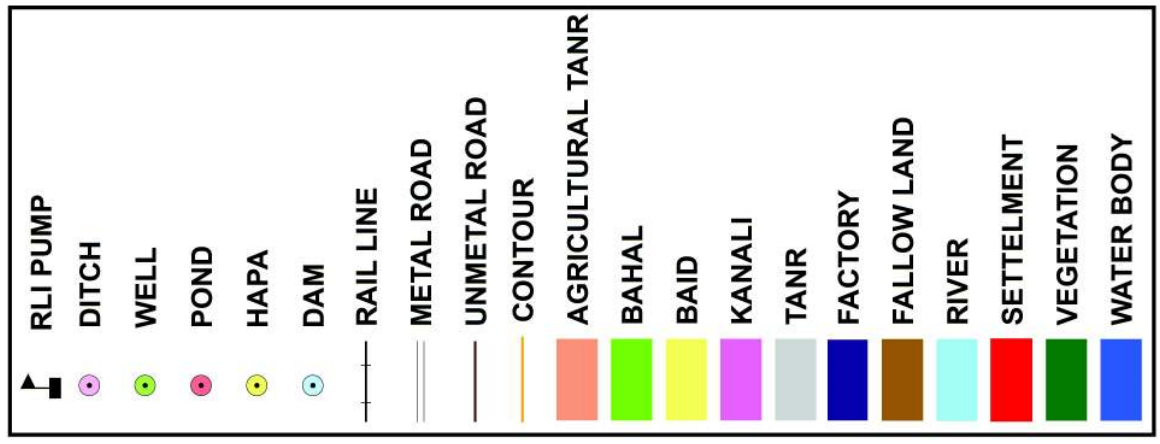
86°47'0"E

86°47'30"E

86°48'0"E



JAMKIRI



SCHOOL OF OCEANOGRAPHIC STUDIES
JADAVPUR UNIVERSITY

VULNERABILITY - HIGH
RISK - MODERATE



86°46'30"E

86°47'0"E

86°47'30"E

86°48'0"E

23°20'30"N

23°21'0"N

23°20'30"N

23°21'0"N

86°45'0"E

86°45'30"E

86°46'0"E

86°46'30"E

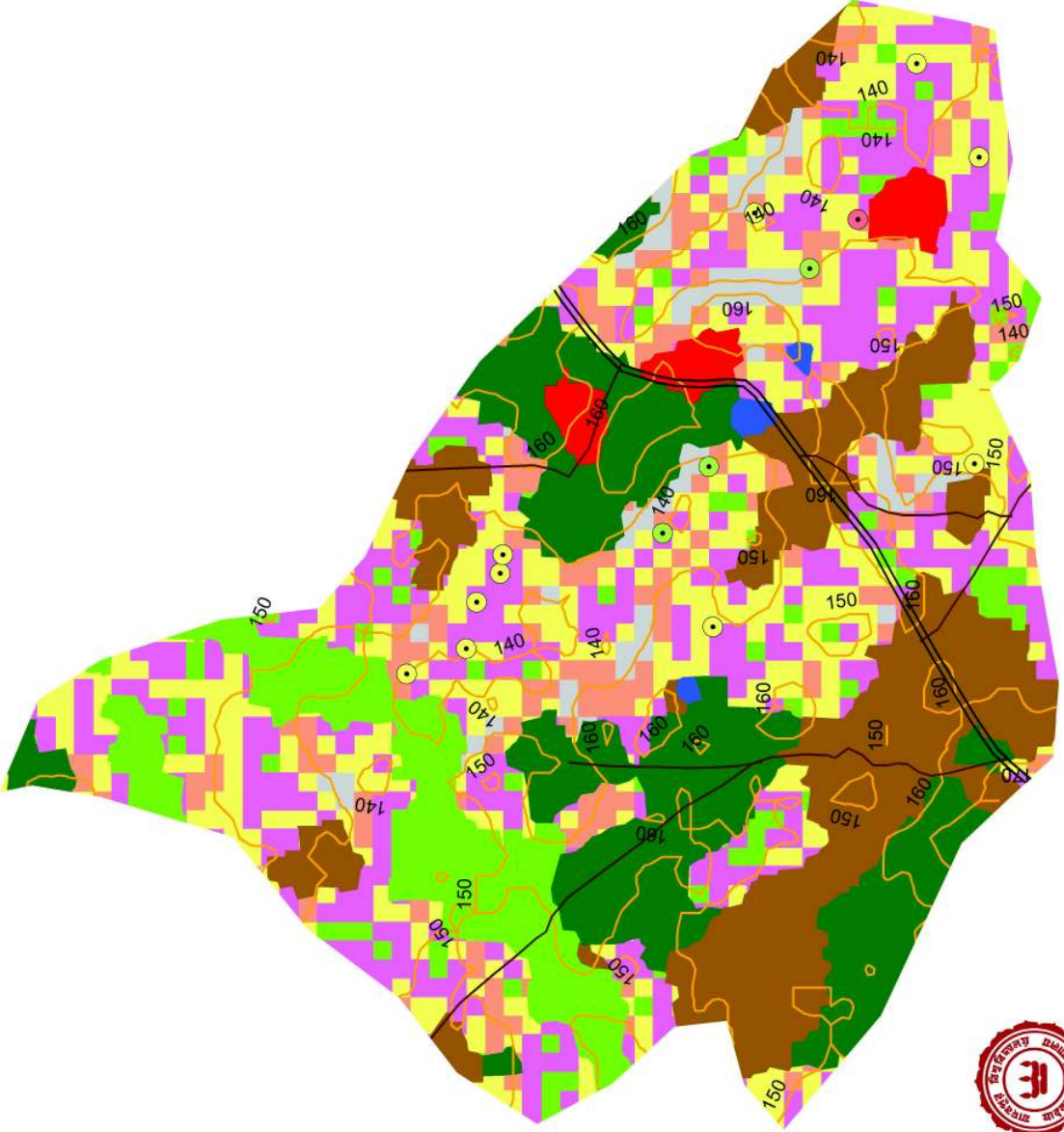
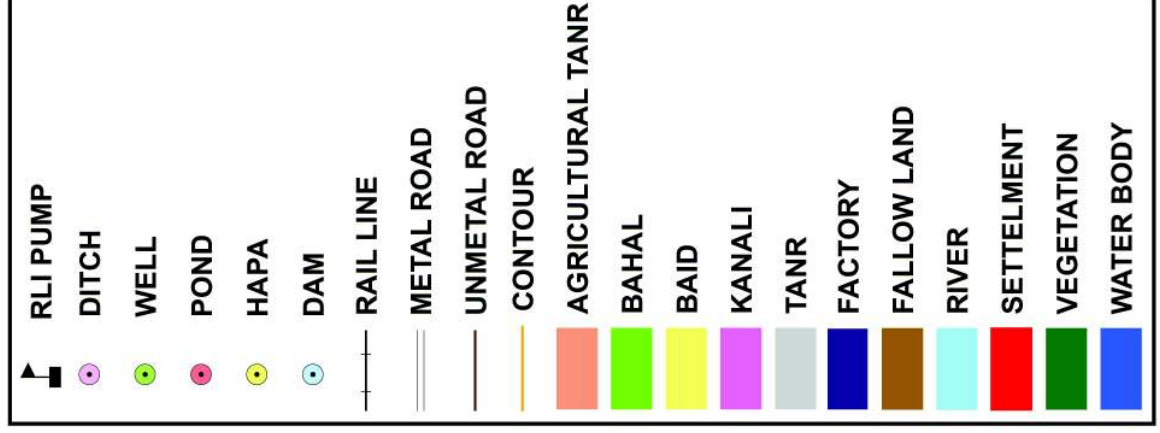
23°22'30"N

23°22'0"N

23°21'30"N



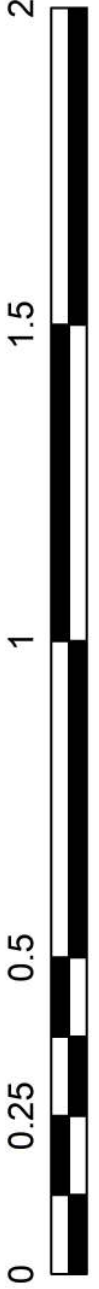
JIBANPUR



**VULNERABILITY - MODERATE
RISK - LOW**



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JADAVPUR UNIVERSITY



86°45'0"E

86°45'30"E

86°46'0"E

86°46'30"E

23°22'30"N

23°22'0"N

23°21'30"N

86°47'30"E

86°48'0"E

86°48'30"E

86°49'0"E



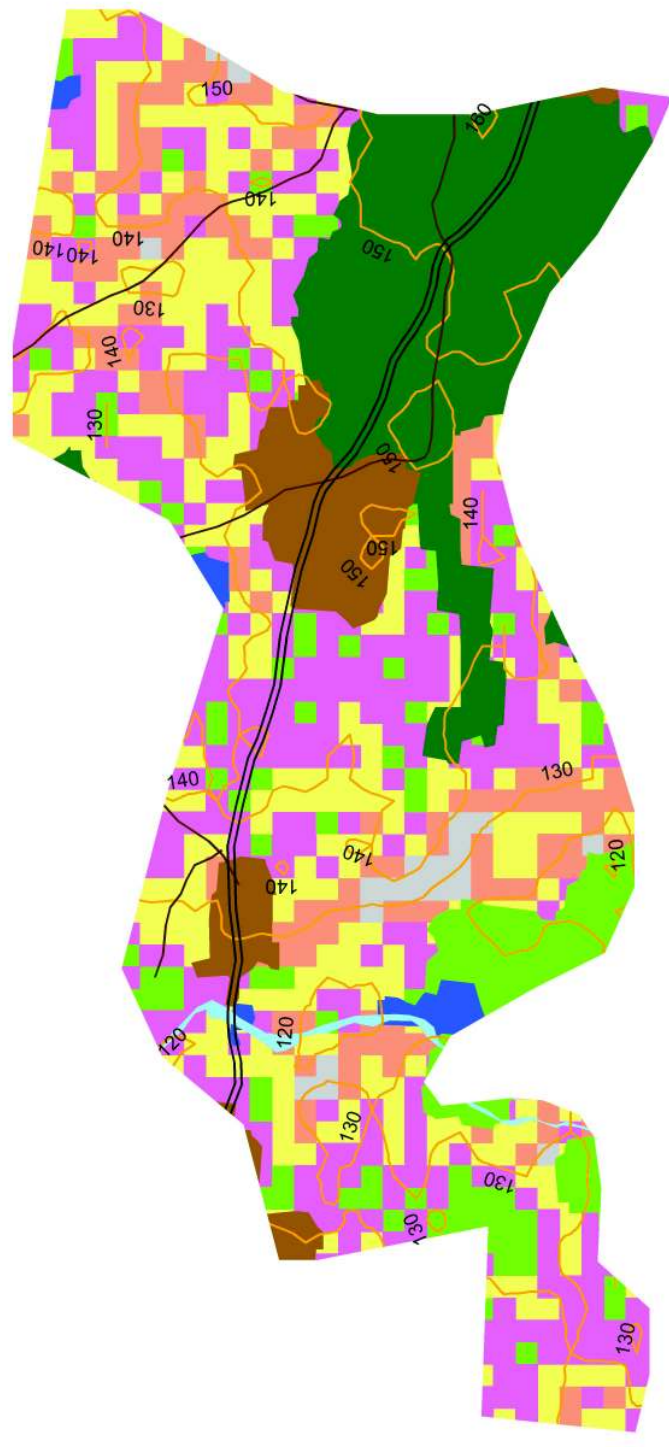
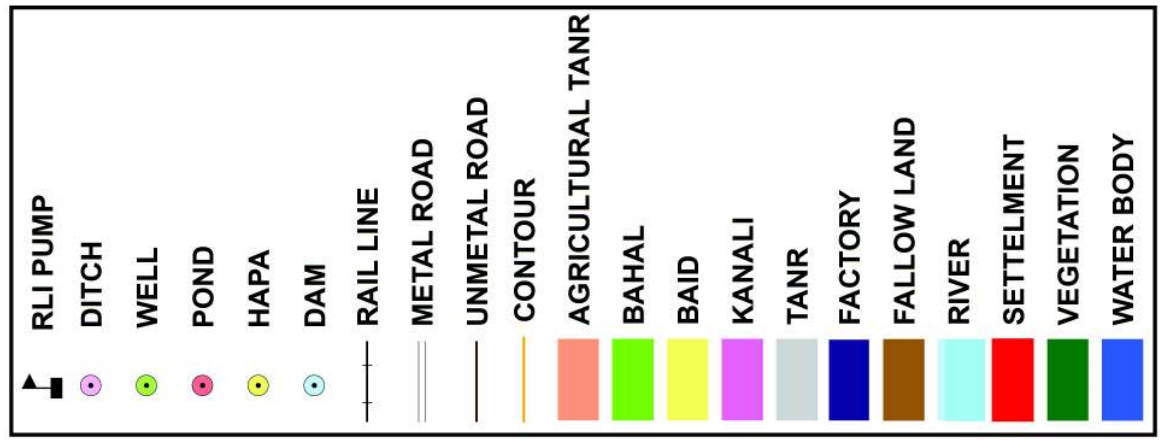
BALARAMPUR

23°21'0"N

23°21'0"N

23°20'30"N

23°20'30"N



SCHOOL OF OCEANOGRAPHIC STUDIES
JADAVPUR UNIVERSITY

VULNERABILITY - LOW
RISK - VERY LOW



86°47'30"E

86°48'0"E

86°48'30"E

86°49'0"E

23°20'0"N

86°42'30"E

86°43'0"E

86°43'30"E

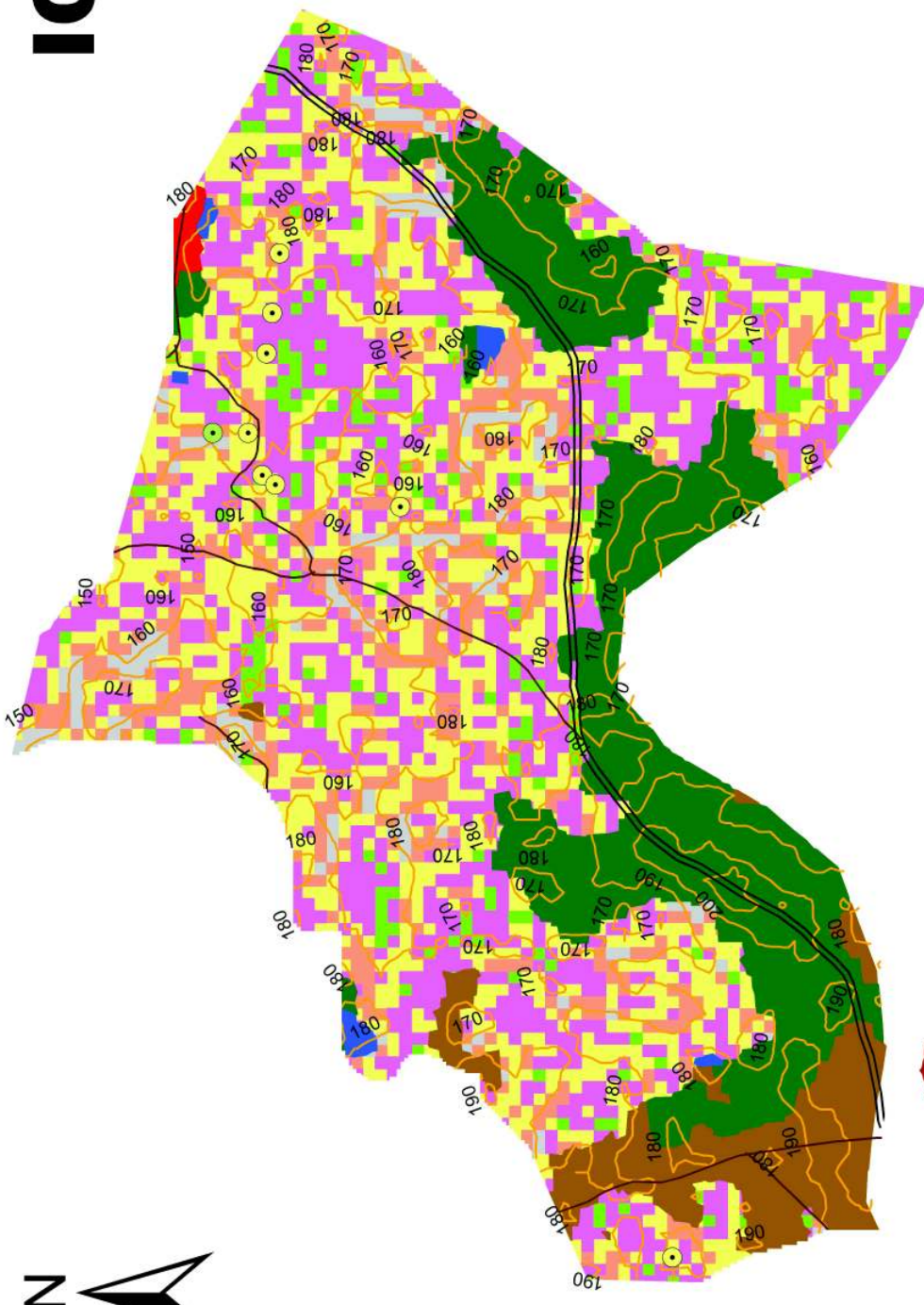
86°44'0"E

86°44'30"E

86°45'0"E



ICHAMARA

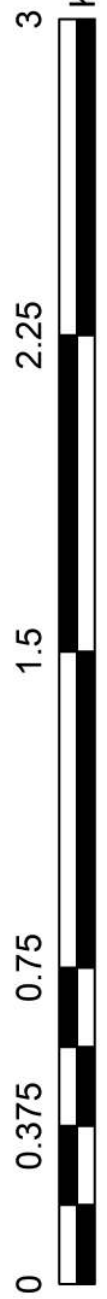


	RLI PUMP
	DITCH
	WELL
	POND
	HAPA
	DAM
	RAIL LINE
	METAL ROAD
	UNMETAL ROAD
	CONTOUR
	AGRICULTURAL TANR
	BAHAL
	BAID
	KANALI
	TANR
	FACTORY
	FALLOW LAND
	RIVER
	SETTELMENT
	VEGETATION
	WATER BODY



SCHOOL OF OCEANOGRAPHIC STUDIES
JADAVPUR UNIVERSITY

VULNERABILITY - VERY LOW
RISK - VERY LOW



23°19'30"N

23°19'0"N

23°18'30"N

86°42'30"E

86°43'0"E

86°43'30"E

86°44'0"E

86°44'30"E

86°45'0"E

86°42'30"E

86°43'0"E

86°43'30"E

86°44'0"E

86°44'30"



JORTHOL

23°24'30"N

23°24'0"N

23°23'30"N

23°24'30"N

23°24'0"N

23°23'30"N

86°42'30"E

86°43'0"E

86°43'30"E

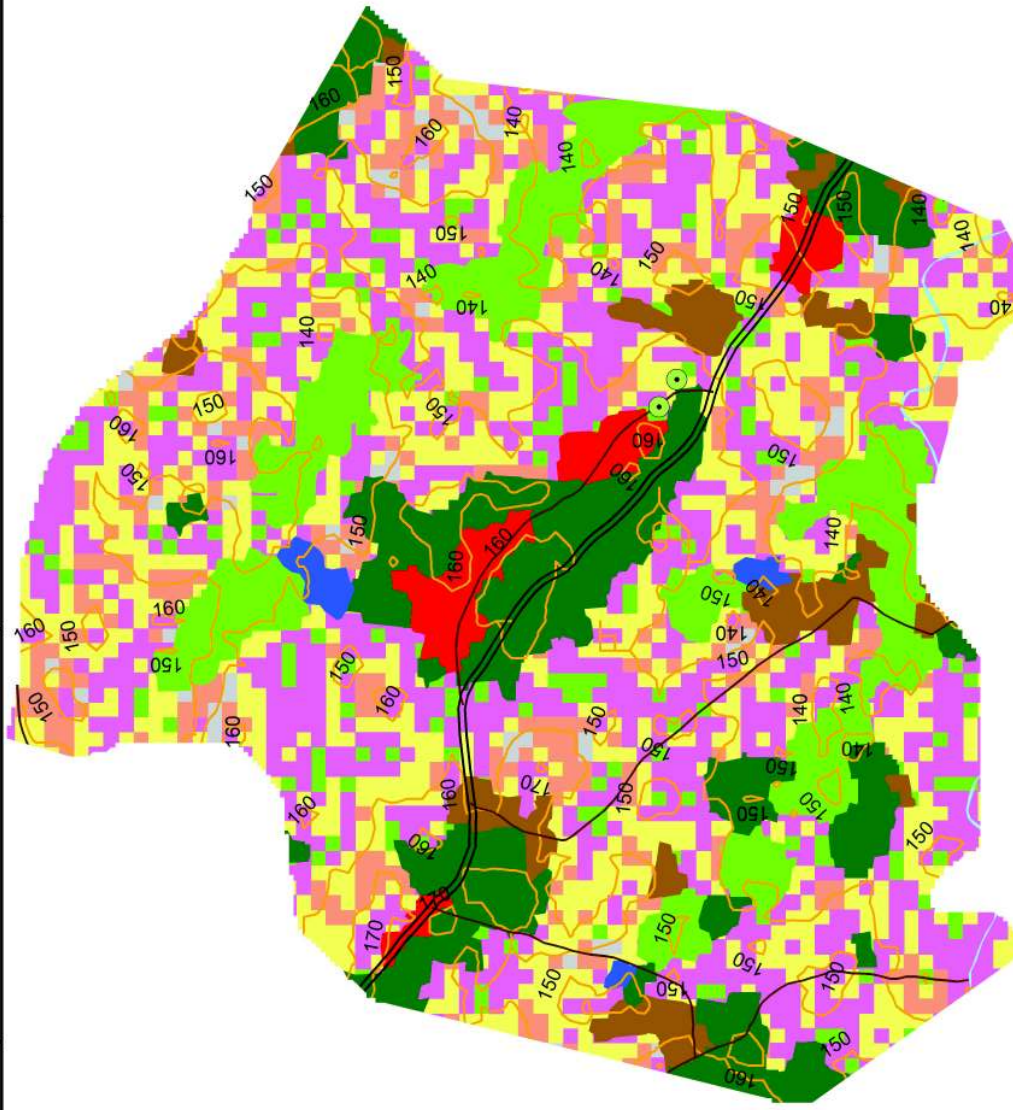
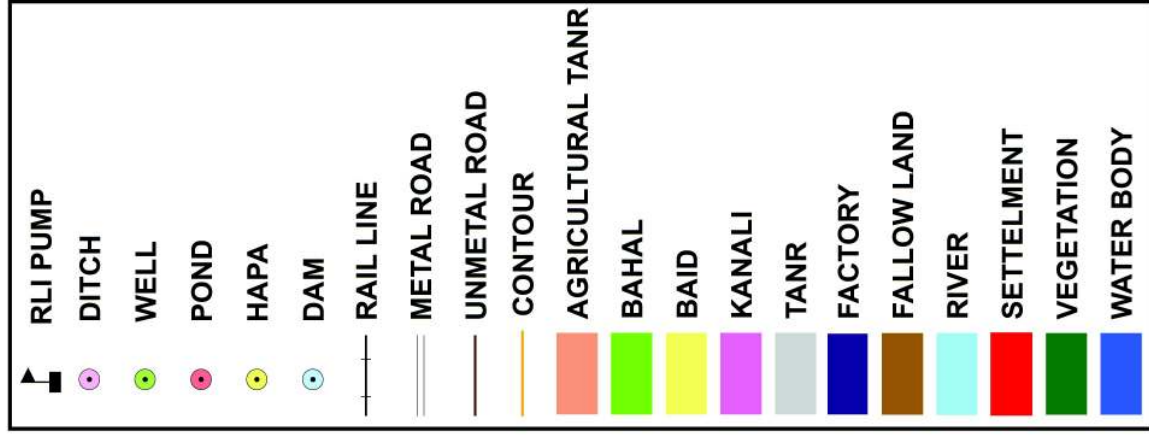
86°44'0"E

86°44'30"

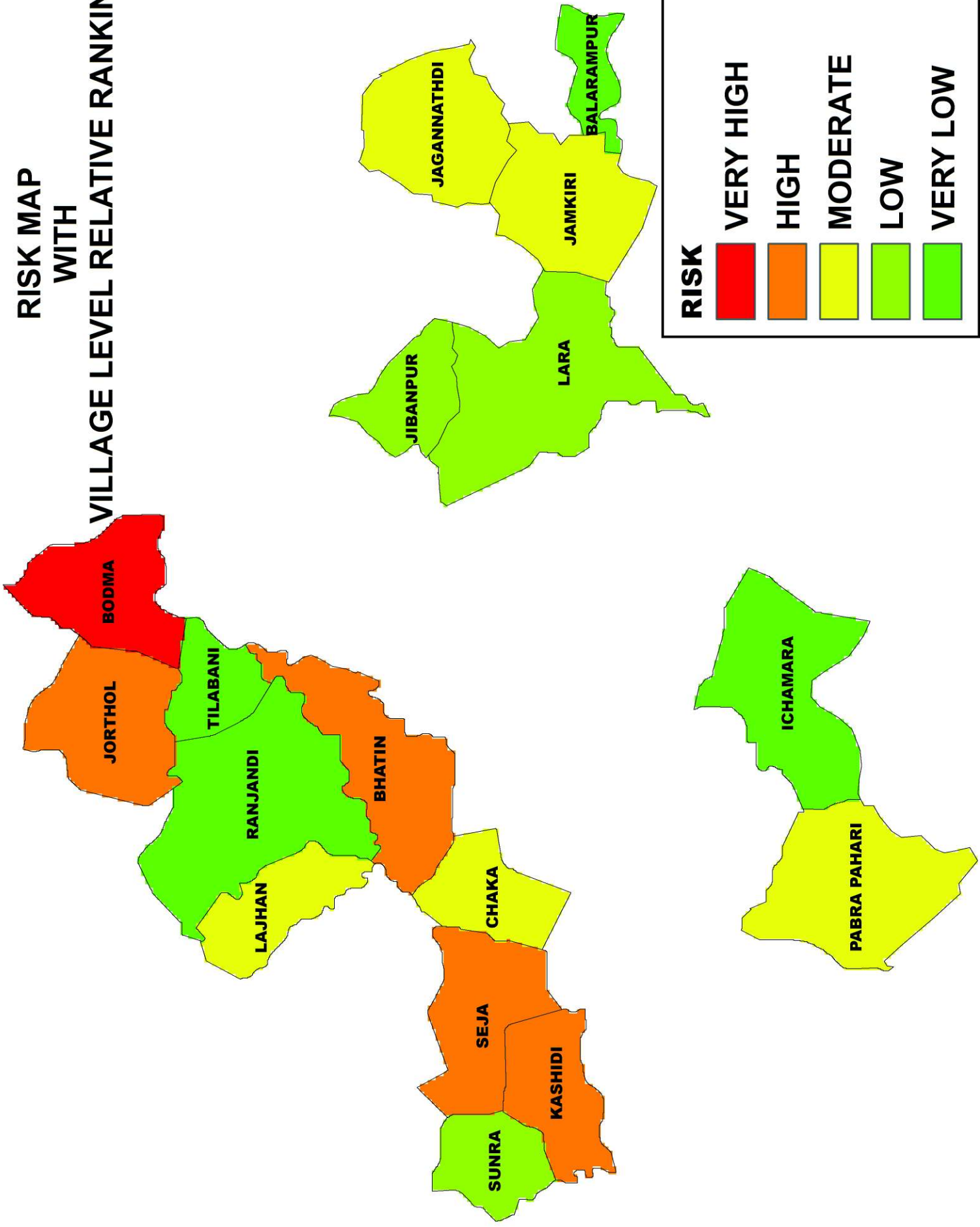


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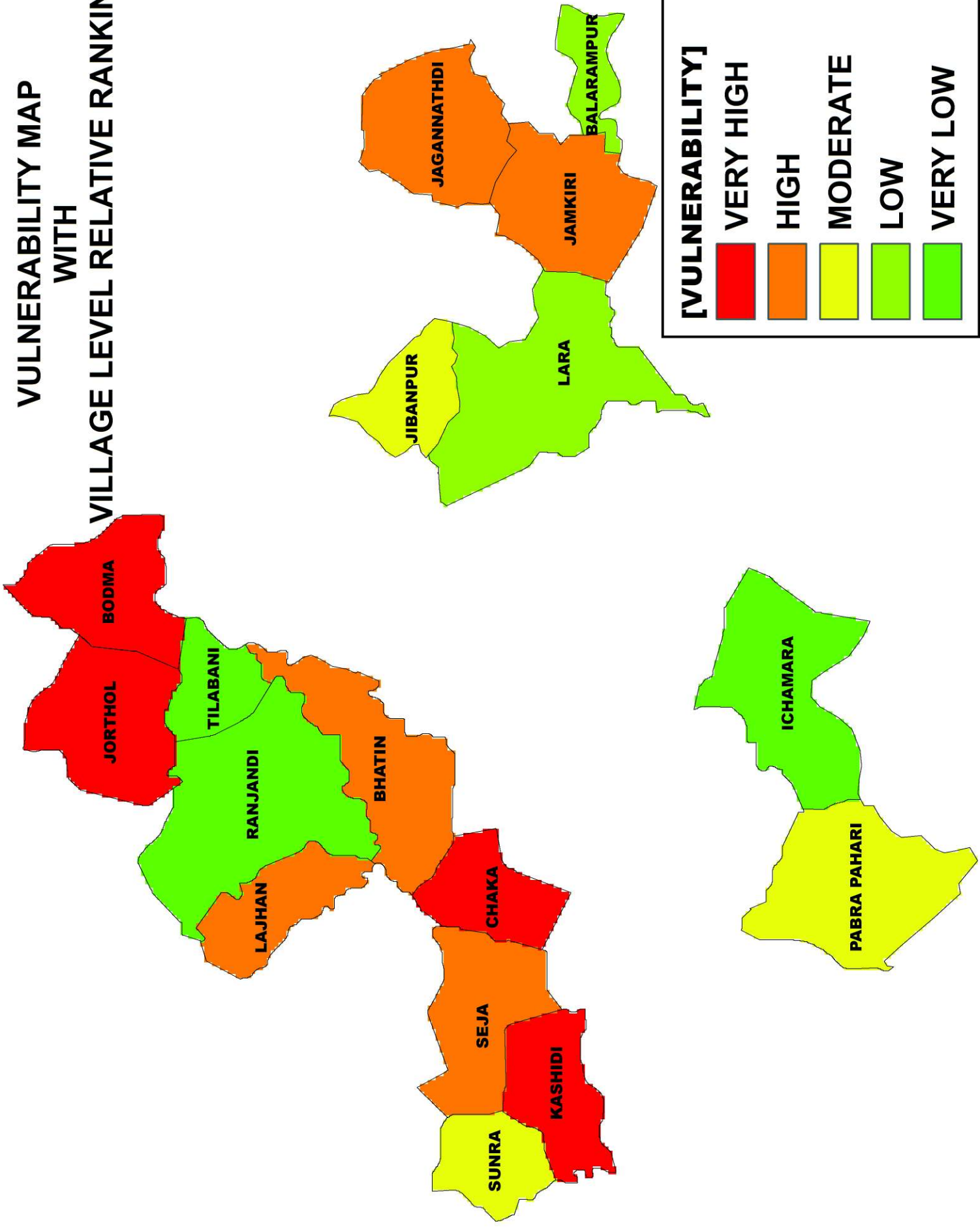
VULNERABILITY - VERY HIGH
RISK - HIGH



RISK MAP WITH VILLAGE LEVEL RELATIVE RANKING



VULNERABILITY MAP WITH VILLAGE LEVEL RELATIVE RANKING



VULNERABILITY INDEX

EXPOSURE	DDI [Degree of Dryness Index]	CZI [China-Z Index]	PRECIPITATION	
		MCZI [Modified CZI]		
		SPI [Standardized Precipitation Index]		
		DI [Deciles Index]		
		EDI [Effective drought Index]		
		PNI [Percent of Normal Index]		
		RAI [Rainfall Anomaly Index]		
		ZSI [Z-score Index]		
	VHI [Vegetation Health Index]	VCI [Vegetation Condition Index]	NDVI [Normalized Difference Vegetation Index]	Satellite Image
			SAVI [Soil Adjusted Vegetation Index]	
EVI [Enhanced Vegetation Index]				
TNDVI [Transform Normalized Difference Vegetation Index]				
		TCI [Temperature Condition Index]	TEMPERATURE , HUMIDITY, RADIATION	
SENSITIVITY	FARMER			
	AGRICULTURAL DEPENDENCY			
	FEMALE POPULATION			
	MIGRATION			
	AGRICULTURAL LABOUR			
	NON WORKER			
ADAPTIVE CAPACITY	LITERACY RATE			
	IRRIGATED AREA			
	FOREST AREA			
	POND			
	WELL			
	DITCH			
	DAM			
	RLI			
TUBE WELL				