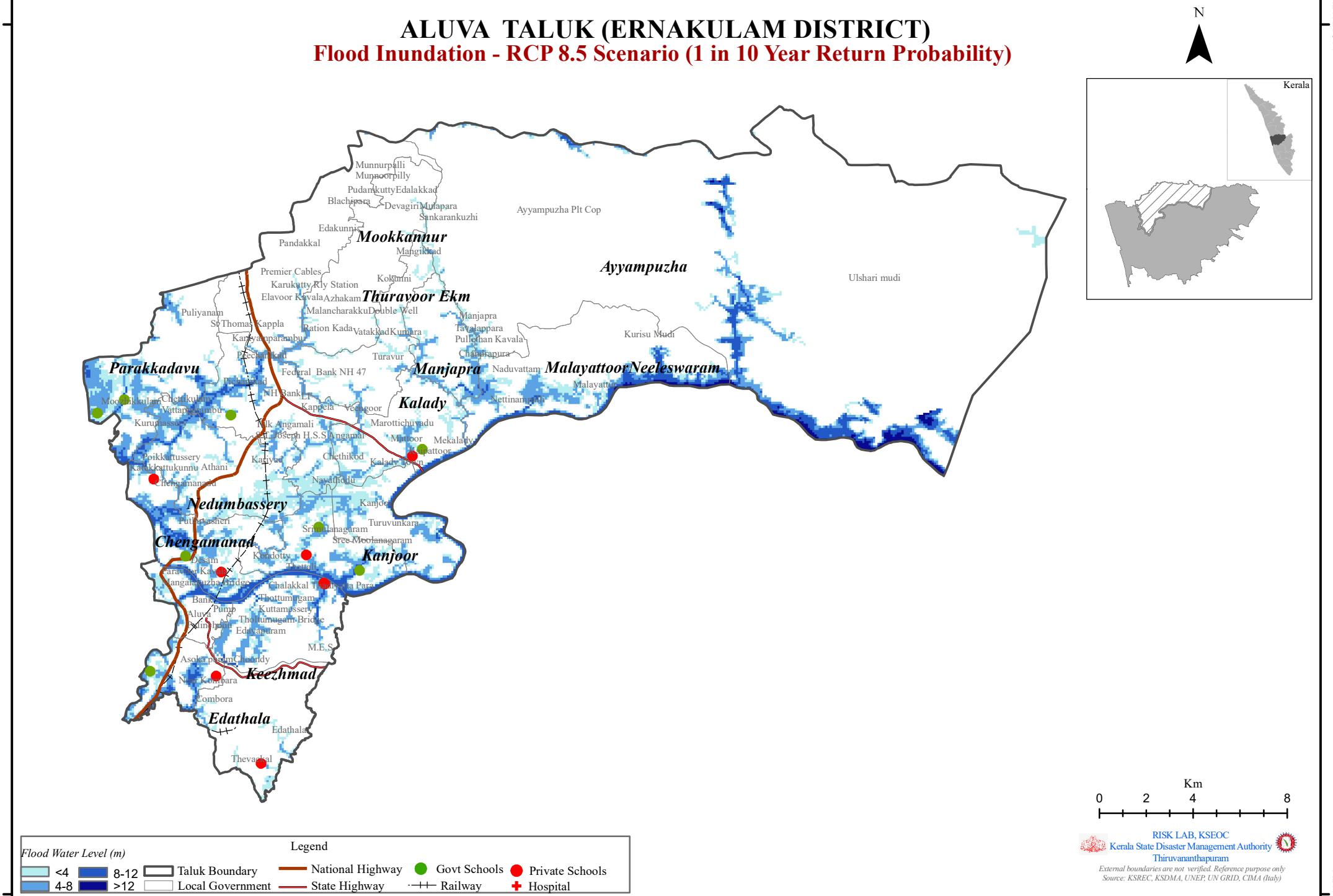
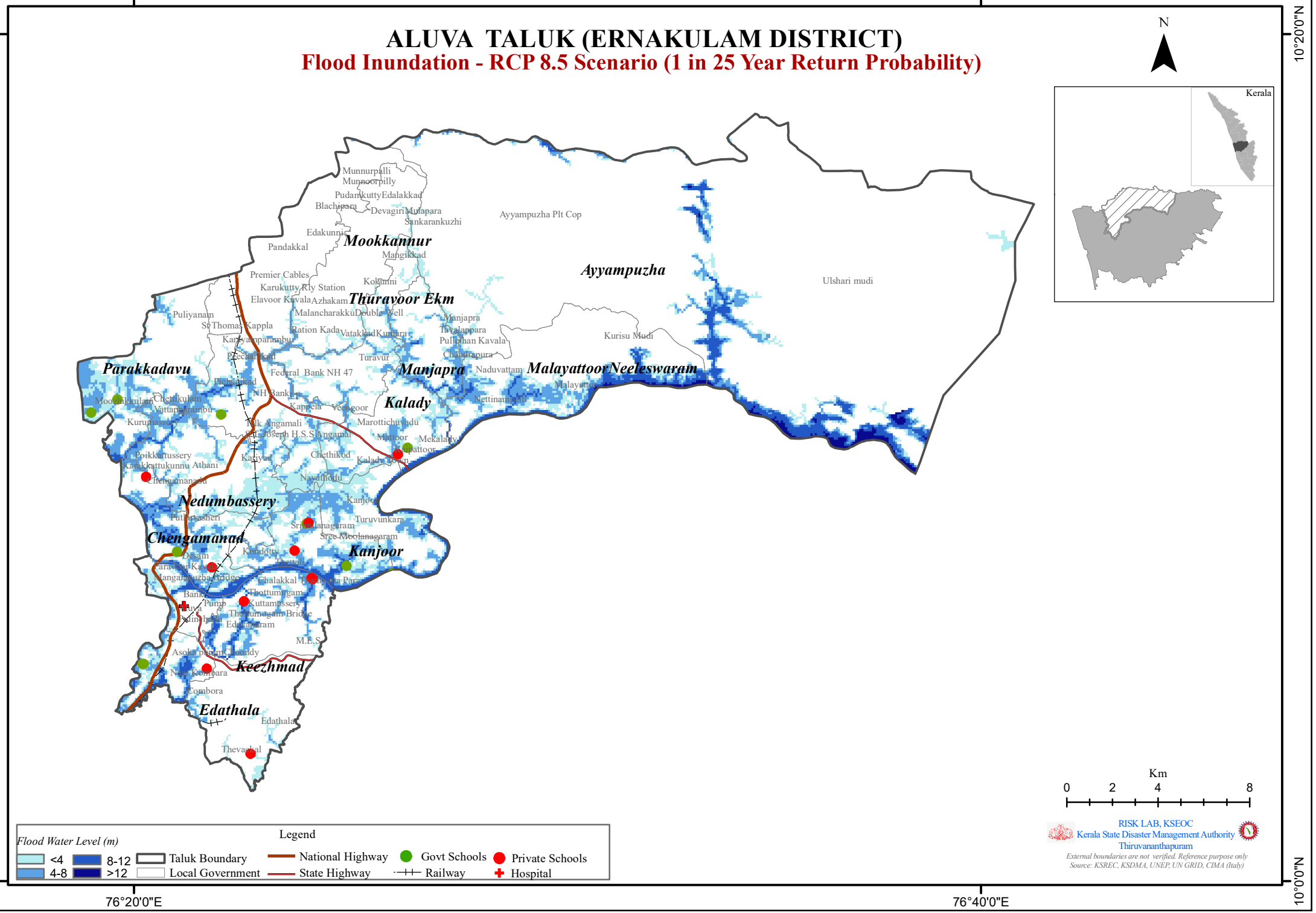
ALUVA TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 10 Year Return Probability)



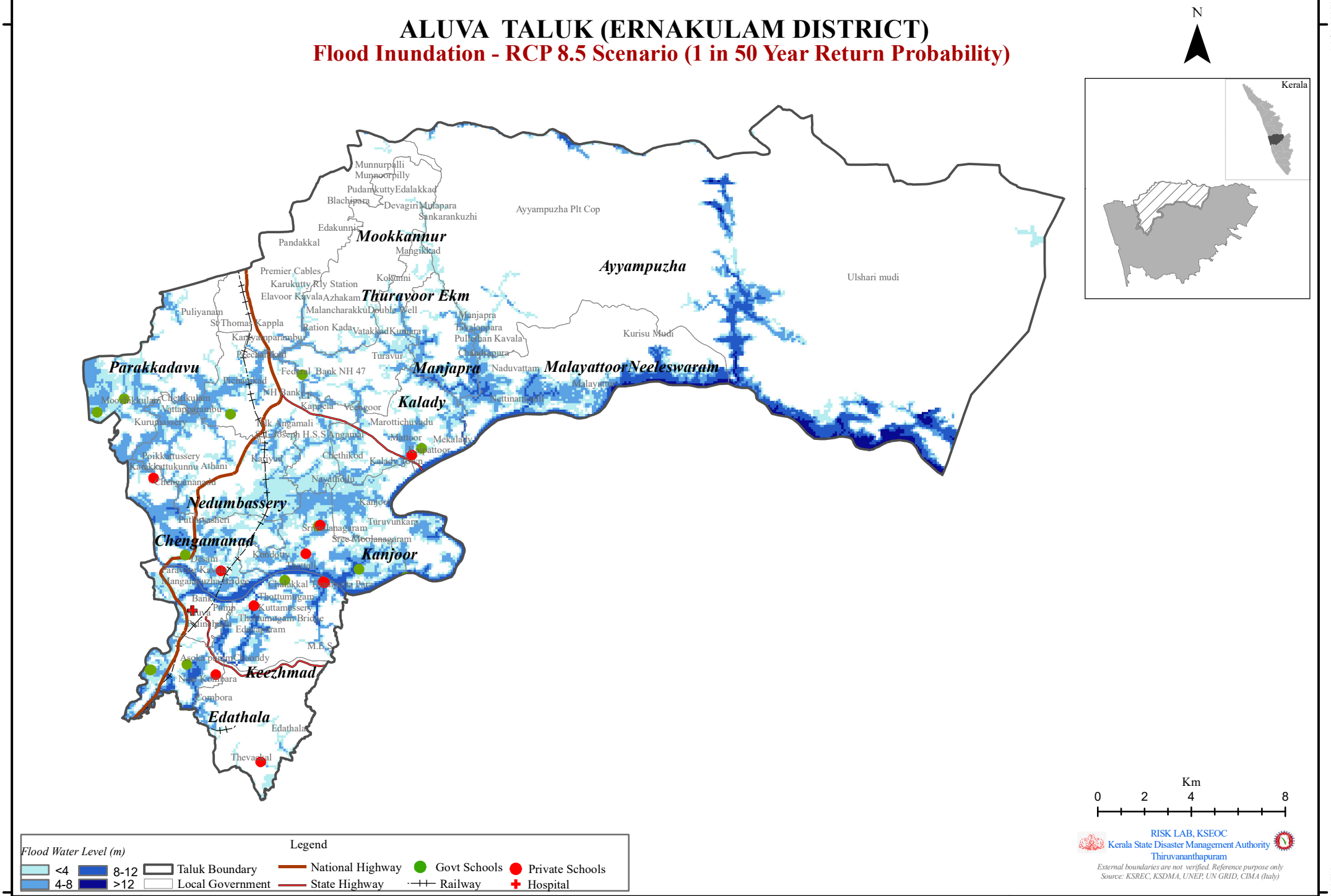
ALUVA TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 25 Year Return Probability)



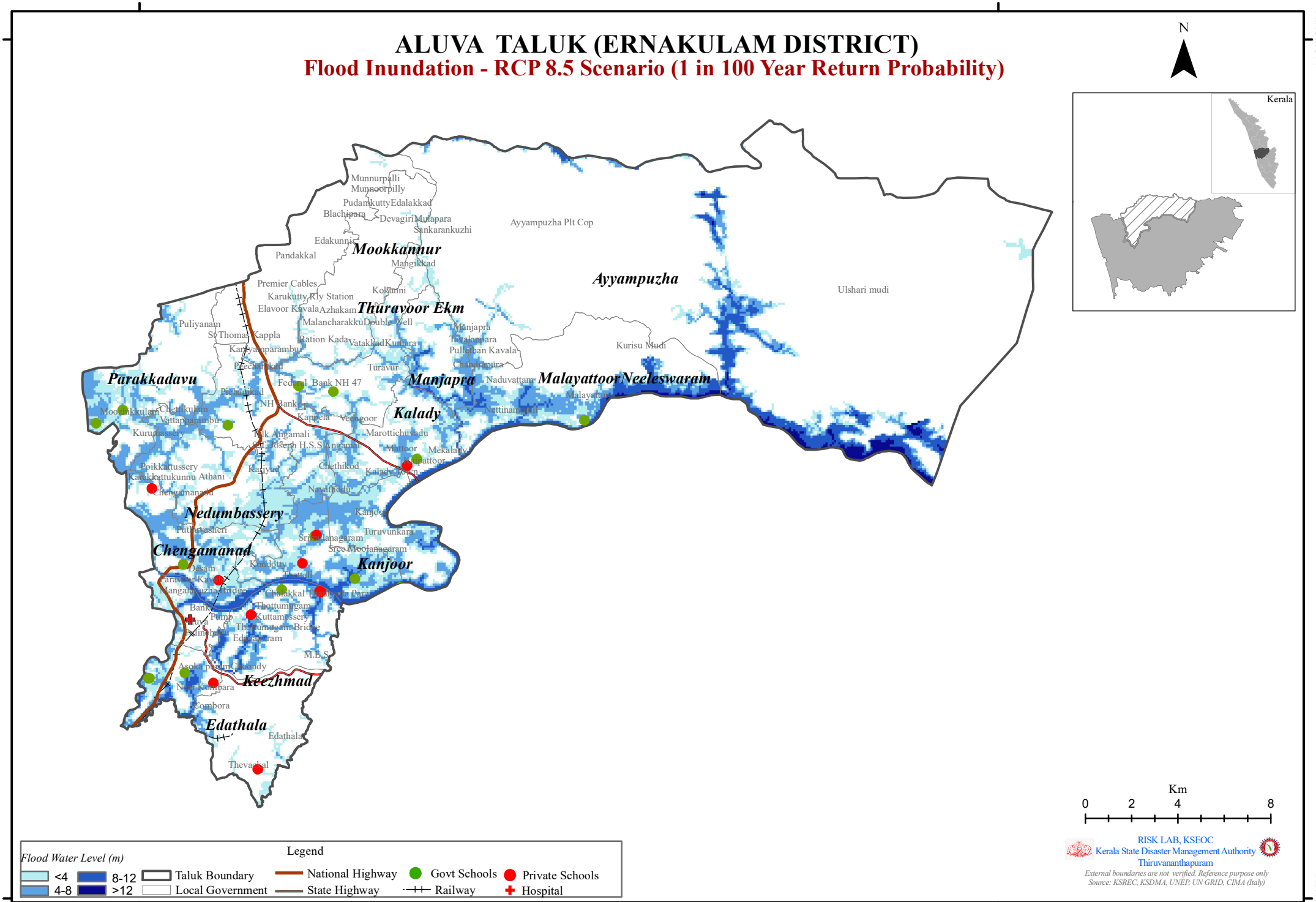
ALUVA TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 50 Year Return Probability)



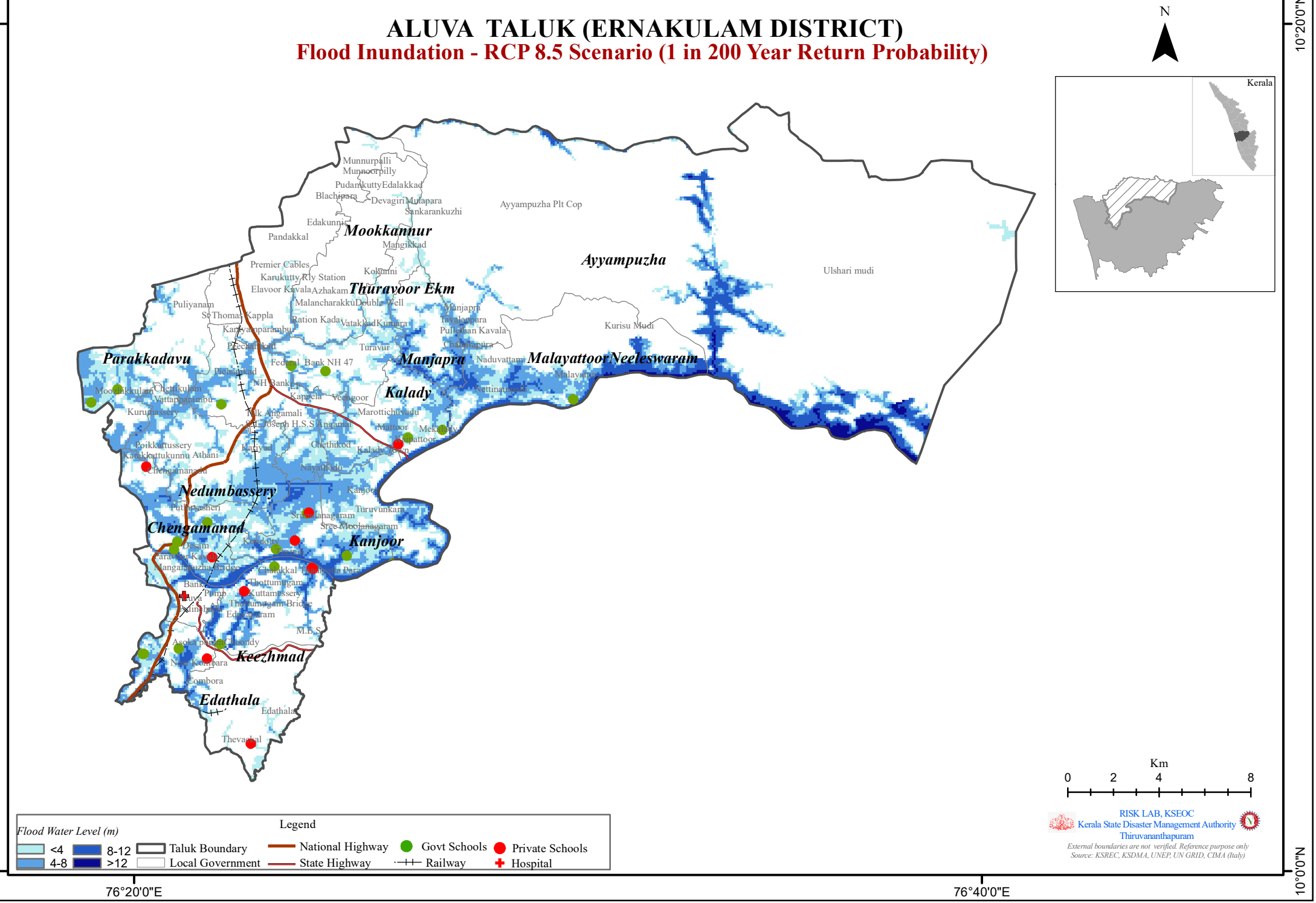
ALUVA TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 100 Year Return Probability)



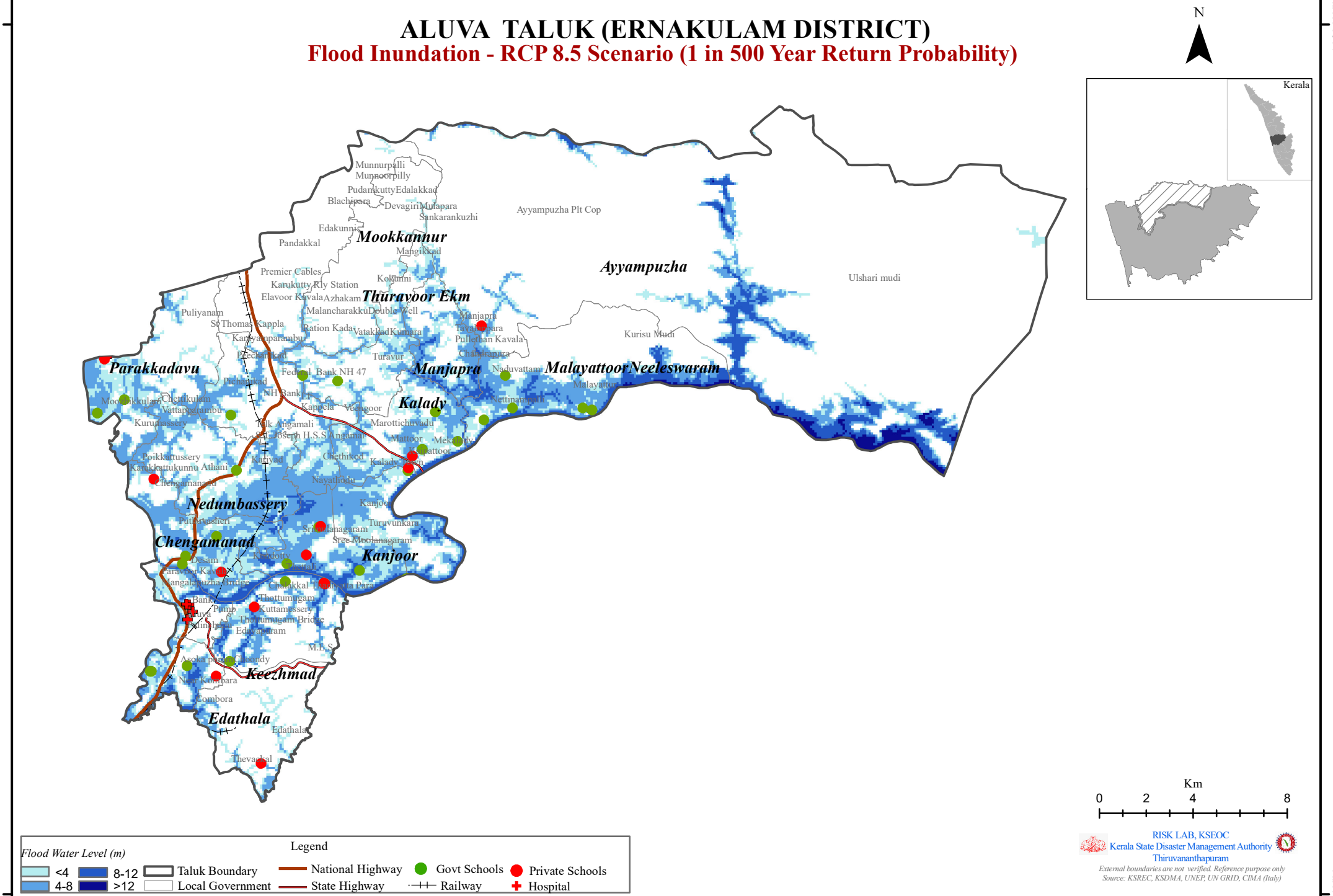
ALUVA TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 200 Year Return Probability)



ALUVA TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 500 Year Return Probability)



ERNAKULAM DISTRICT

ALUVA TALUK

1 in 10 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Aluva Municipality	2.15	8.14
2	Angamaly Municipality	7.27	7.69
3	Ayyampuzha	16.46	41.07
4	Chengamanad	8.68	8.49
5	Choornikkara	3.83	8.2
6	Edathala	1.50	7.68
7	Kalady	5.23	10.38
8	Kanjoor	5.65	12.02
9	Karukutty	0.85	6.75
10	Keezhmad	5.65	11.92
11	MalayattoorNeeleswaram	9.93	21.98
12	Manjapra	3.32	7.49
13	Mookkannur	0.86	5.76
14	Nedumbassery	9.26	7.69
15	Parakkadavu	8.99	7.82
16	Sreemoolanagaram	4.22	11.92
17	Thuravoor Ekm	2.59	5.98
18	Tripunithura Municipality	3.39	5.05

1 in 25 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Aluva Municipality	2.46	9.15
2	Angamaly Municipality	7.77	7.69
3	Ayyampuzha	19.66	46.4
4	Chengamanad	9.72	9.52
5	Choornikkara	4.41	9.52
6	Edathala	1.76	9.17
7	Kalady	6.68	11.88
8	Kanjoor	7.01	13.76
9	Karukutty	0.86	6.75
10	Keezhmad	6.57	12.19
11	MalayattoorNeeleswaram	12.17	23.78
12	Manjapra	4.49	8.98
13	Mookkannur	1.47	5.89
14	Nedumbassery	10.79	7.69
15	Parakkadavu	9.00	7.82
16	Sreemoolanagaram	5.18	12.54
17	Thuravoor Ekm	4.20	6.8
18	Tripunithura Municipality	3.49	5.79

1 in 50 YEAR (CC – RCP 8.5))

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Aluva Municipality	2.60	9.6
2	Angamaly Municipality	8.15	7.69
3	Ayyampuzha	21.91	49.87
4	Chengamanad	10.51	10.2
5	Choornikkara	4.60	9.98
6	Edathala	1.96	9.57
7	Kalady	7.62	12.77
8	Kanjoor	7.76	14.57
9	Karukutty	0.96	6.75
10	Keezhmad	7.09	12.37
11	MalayattoorNeeleswaram	13.34	24.79
12	Manjapra	4.96	9.95
13	Mookkannur	1.61	6.17
14	Nedumbassery	11.47	7.94
15	Parakkadavu	9.12	7.82
16	Sreemoolanagaram	5.69	12.86
17	Thuravoor Ekm	4.93	7.61
18	Tripunithura Municipality	3.53	5.87

1 in 100 YEAR (CC – RCP 8.5))

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Aluva Municipality	2.70	10.17
2	Angamaly Municipality	8.66	7.85
3	Ayyampuzha	24.22	52.21
4	Chengamanad	11.19	10.69
5	Choornikkara	4.76	10.42
6	Edathala	2.22	10.29
7	Kalady	9.05	13.5
8	Kanjoor	8.75	15.42
9	Karukutty	0.99	7.19
10	Keezhmad	7.63	12.67
11	MalayattoorNeeleswaram	14.48	25.69
12	Manjapra	5.37	10.83
13	Mookkannur	1.68	6.47
14	Nedumbassery	12.20	8.08
15	Parakkadavu	9.41	8
16	Sreemoolanagaram	6.18	13.2
17	Thuravoor Ekm	5.44	8.33
18	Tripunithura Municipality	3.59	6.02

1 in 200 YEAR (CC – RCP 8.5))

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Aluva Municipality	2.86	10.61
2	Angamaly Municipality	9.25	9.14
3	Ayyampuzha	25.77	53.69
4	Chengamanad	12.26	10.97
5	Choornikkara	4.87	10.73
6	Edathala	2.27	10.65
7	Kalady	10.20	14.3
8	Kanjoor	9.43	16.32
9	Karukutty	1.17	7.91
10	Keezhmad	7.85	14.37
11	MalayattoorNeeleswaram	15.29	26.49
12	Manjapra	5.93	11.73
13	Mookkannur	1.77	6.74
14	Nedumbassery	13.40	9.2
15	Parakkadavu	9.67	8.28
16	Sreemoolanagaram	7.23	14.67
17	Thuravoor Ekm	5.95	8.99
18	Tripunithura Municipality	3.64	6.15

1 in 500 YEAR (CC – RCP 8.5))

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Aluva Municipality	3.16	10.83
2	Angamaly Municipality	9.93	10.03
3	Ayyampuzha	28.48	54.71
4	Chengamanad	13.58	11.39
5	Choornikkara	5.10	11.14
6	Edathala	3.54	11.01
7	Kalady	11.38	15.14
8	Kanjoor	10.06	17.05
9	Karukutty	1.37	8.65
10	Keezhmad	8.12	15.68
11	MalayattoorNeeleswaram	15.99	27.29
12	Manjapra	6.86	12.48
13	Mookkannur	2.14	7.2
14	Nedumbassery	15.48	10.16
15	Parakkadavu	10.23	8.59
16	Sreemoolanagaram	7.52	15.68
17	Thuravoor Ekm	7.10	9.73
18	Tripunithura Municipality	3.64	6.19

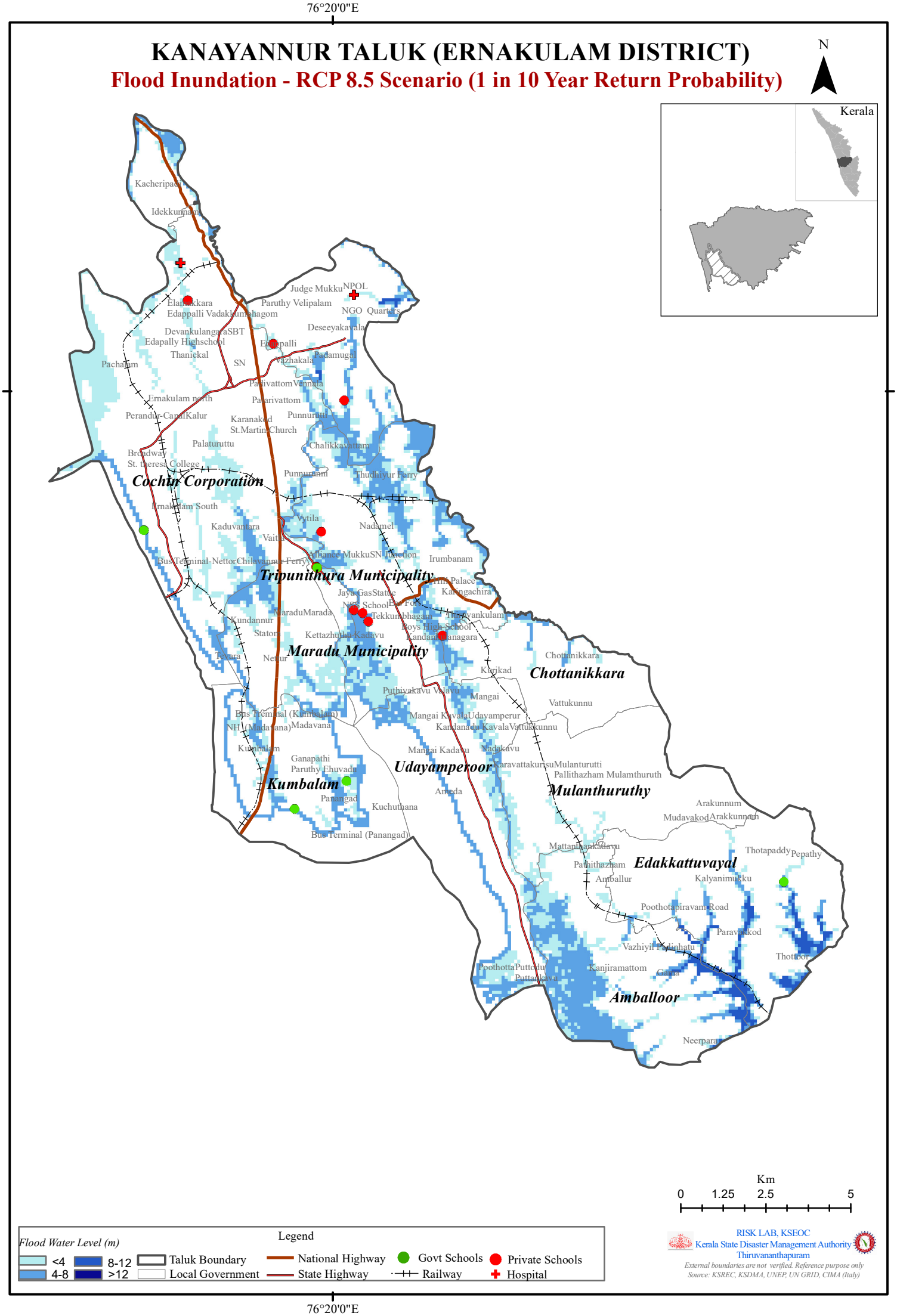
ERNAKULAM DISTRICT						
ALUVA TALUK						
Name of exposed Hospital/School (LSG)	**Return Probability (Climate Change Scenario - RCP 8.5)**					
	1 in 10 Year	1 in 25 Year	1 in 50 Year	1 in 100 Year	1 in 200 Year	1 in 500 Year
Aluva Municipality						
Hospital						
Aarogyalayam Aluva						✓
Anwar Memorial Hospital		✓	✓	✓	✓	✓
Karothukuzhi Hospital						✓
Najath Hospital Aluva						✓
Angamaly Municipality						
School						
St. Antony`S L. P. S. Champannur	✓	✓	✓	✓	✓	✓
Ayyampuzha						
School						
G.J.B.S Naduvattam						✓
Chengamanad						
School						
G.J.B.S Desom	✓	✓	✓	✓	✓	✓
G.L.P.S Sreemoolanagaram	✓	✓	✓	✓	✓	✓
Govt. J. B. S. Desom	✓	✓	✓	✓	✓	✓
Govt. K. Y. L. P. S. Thuruthummel					✓	✓
Govt. U. P. S. Kaprassery					✓	✓
Choornikkara						
School						
G.U.P.S Nochima	✓	✓	✓	✓	✓	✓
S. P. W. Govt. L. P. S. Aluva	✓	✓	✓	✓	✓	✓
S. P. W. H. S. Aluva		✓	✓	✓	✓	✓
T. S. C. L. P. S. Thaikkattukara			✓	✓	✓	✓
Edathala						
School						
G.U.P.S Nochima	✓	✓	✓	✓	✓	✓
Kalady						
School						
G.U.P.S Kalady	✓	✓	✓	✓	✓	✓
Jama Ath L. P. S. Mekkalady					✓	✓
N. S. S. Girls H. S. Manickamangalam						✓

St. Clare School For Deaf Manickamangalam	✓	✓	✓	✓	✓	✓
Kanjoor						
School						
G.L.P.S Sreemoolanagaram						✓
St. Joseph`S C. G. H. S. Kanjoor						✓
Keezhmad						
School						
Darusalam L. P. S. Chalakkal	✓	✓	✓	✓	✓	✓
G.U.P.S Keezhmadu	✓	✓	✓	✓	✓	✓
Govt. H S S Kuttamassery			✓	✓	✓	✓
Govt. L. P. S. Erumathala					✓	✓
MalayattoorNeeleswaram						
School						
Govt. L. P. S. Neeleswaram						✓
S. N. D. P. H. S. Neeleswaram						✓
St. Antony`S L. P. S. Naduvattom						✓
St. Mary`S L. P. S. Malayattoor				✓	✓	✓
St. Thomas H. S. S. Malayattoor						✓
Nedumbassery						
School						
Govt. L. P. B. S. Akaparambu						✓
Parakkadavu						
Hospital						
St Joseph Hospital Poovathusserry						✓
School						
G.U.P.S Kurumassery						✓
Govt. L. P. S. Parakkadavu	✓	✓	✓	✓	✓	✓
St. Mary`S U. P. S. Moozhikkulam	✓	✓	✓	✓	✓	✓
Sreemoolanagaram						
School						
G.L.P.S Sreemoolanagaram	✓	✓	✓	✓	✓	✓
Govt. H. S. S. Chowara					✓	✓
St. Augustine`S L. P. S. Edanad	✓	✓	✓	✓	✓	✓

Thuravoor						
School						
Sree Bhadra L. P. S. Kidangoor			✓	✓	✓	✓
St. Joseph`S H. S. Kidangoor				✓	✓	✓
Tripunithura Municipality						
School						
G.K.M U.P.S Eroor	✓	✓	✓	✓	✓	✓

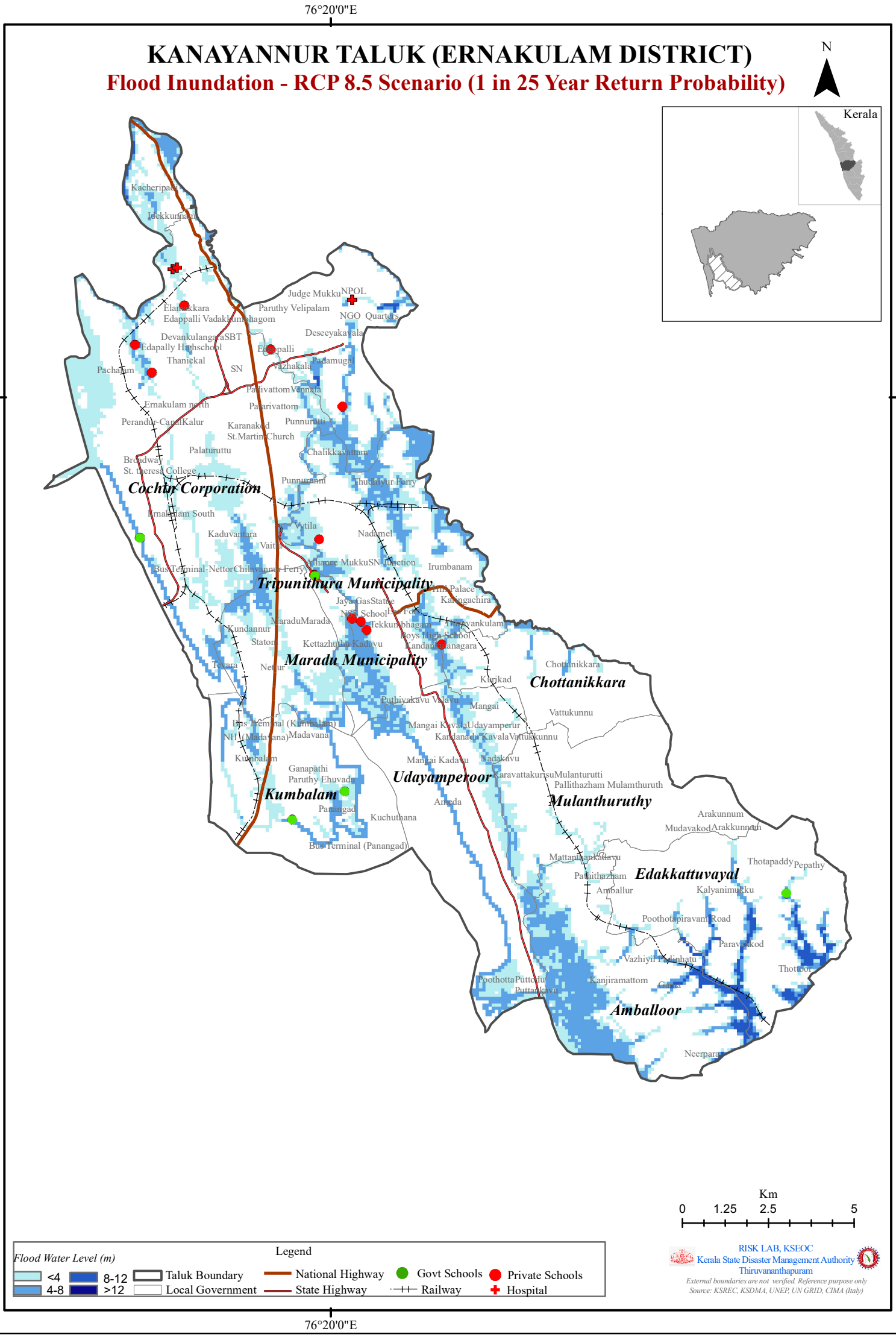
KANAYANNUR TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 10 Year Return Probability)



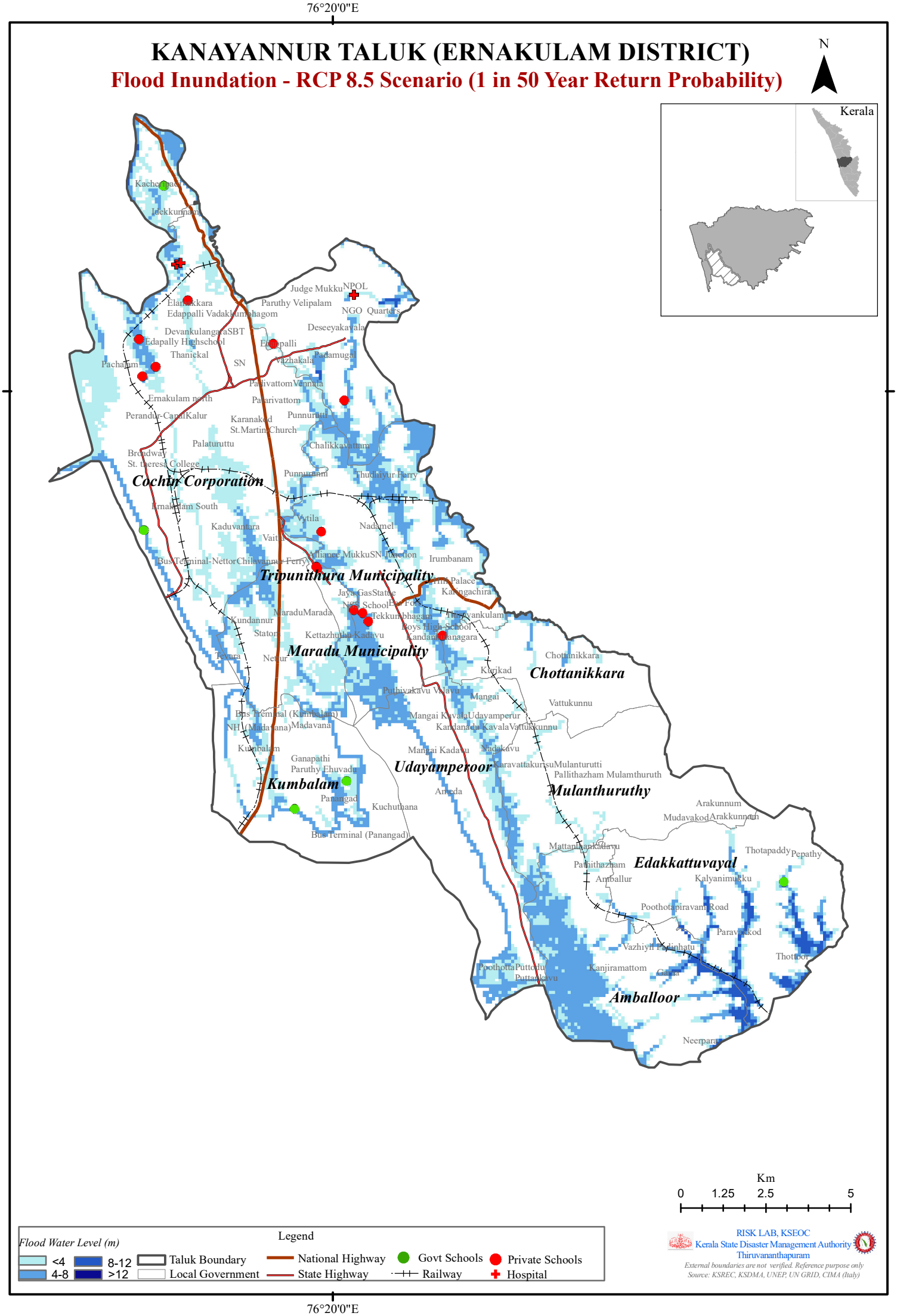
KANAYANNUR TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 25 Year Return Probability)



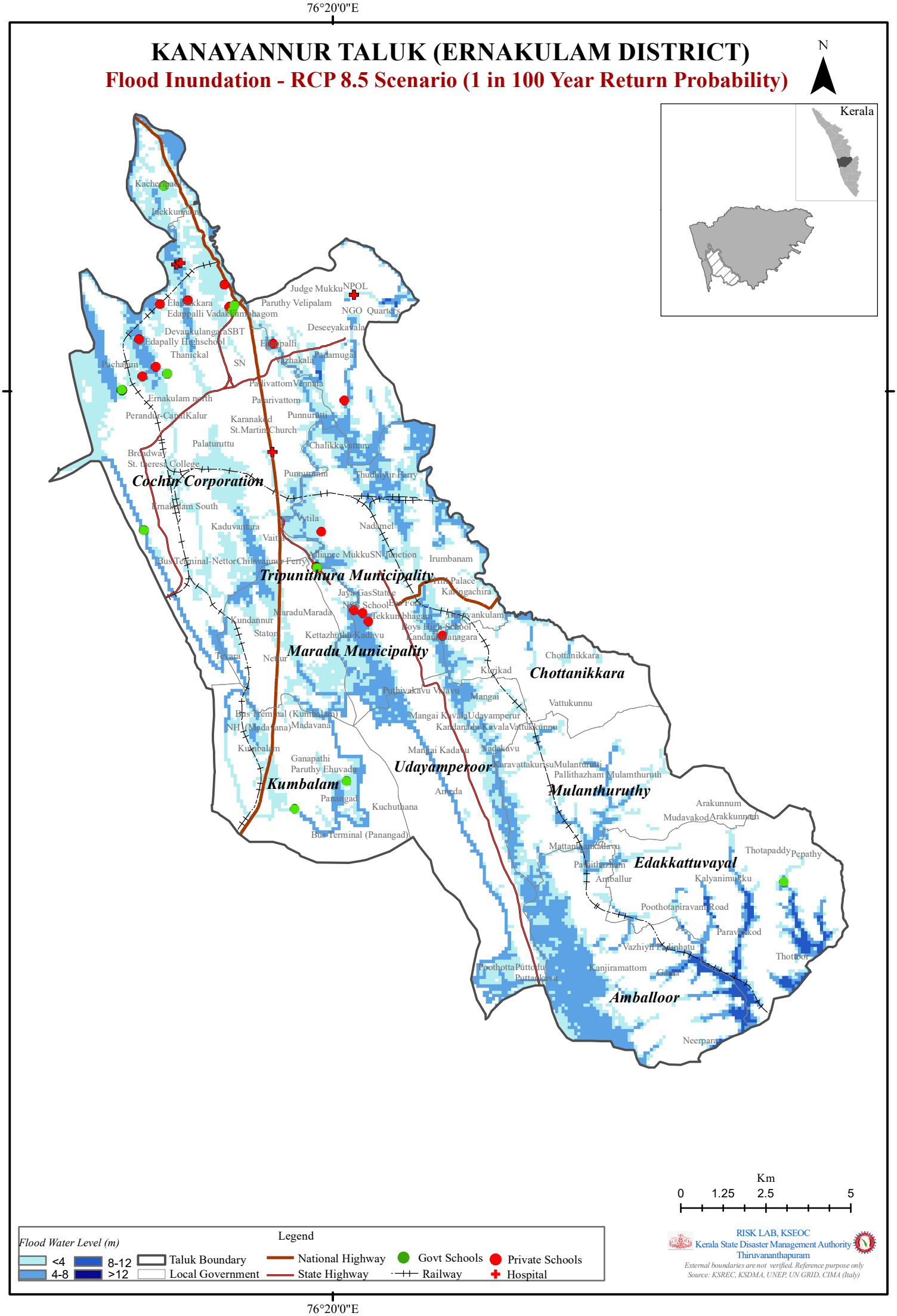
KANAYANNUR TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 50 Year Return Probability)



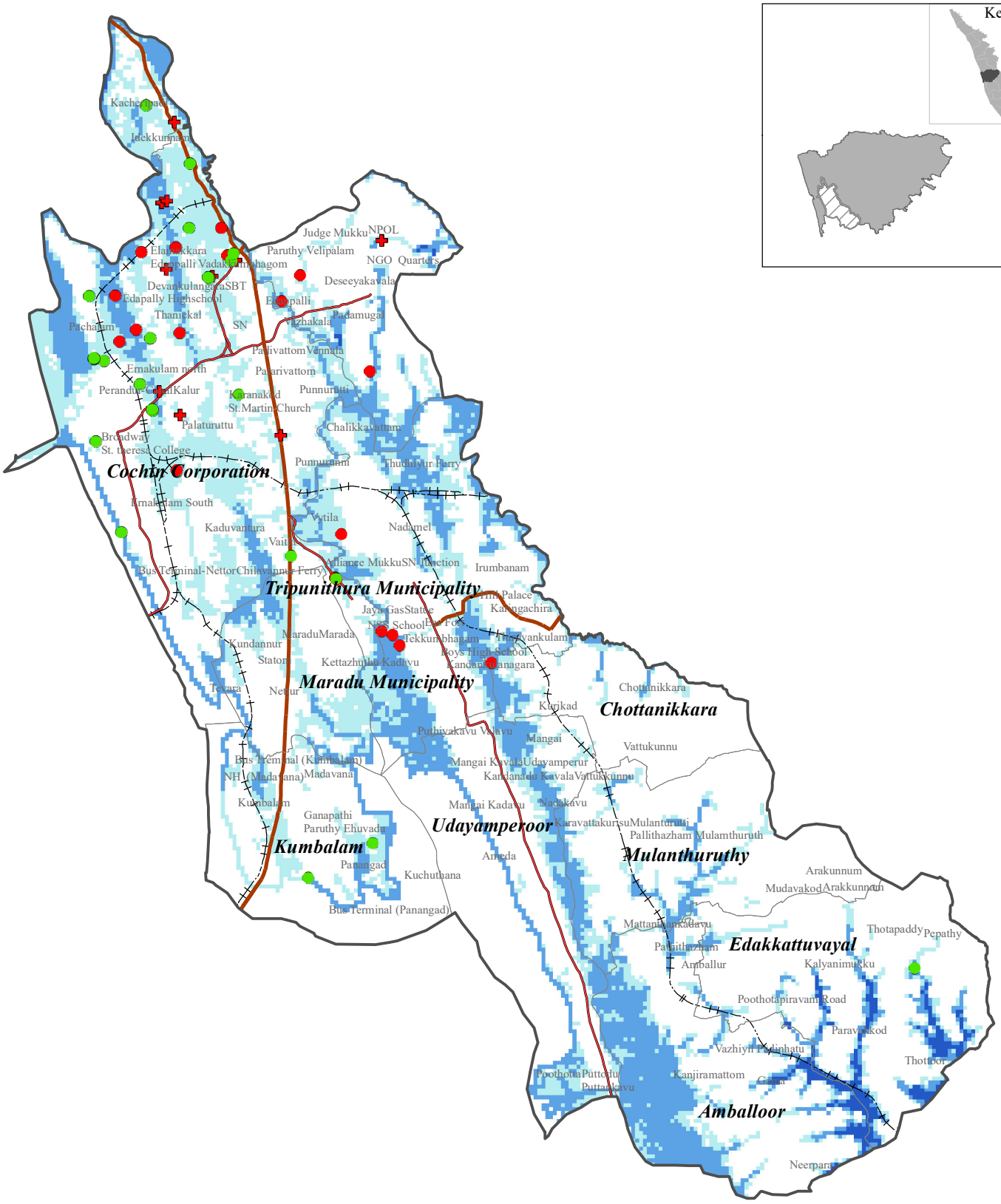
KANAYANNUR TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 100 Year Return Probability)



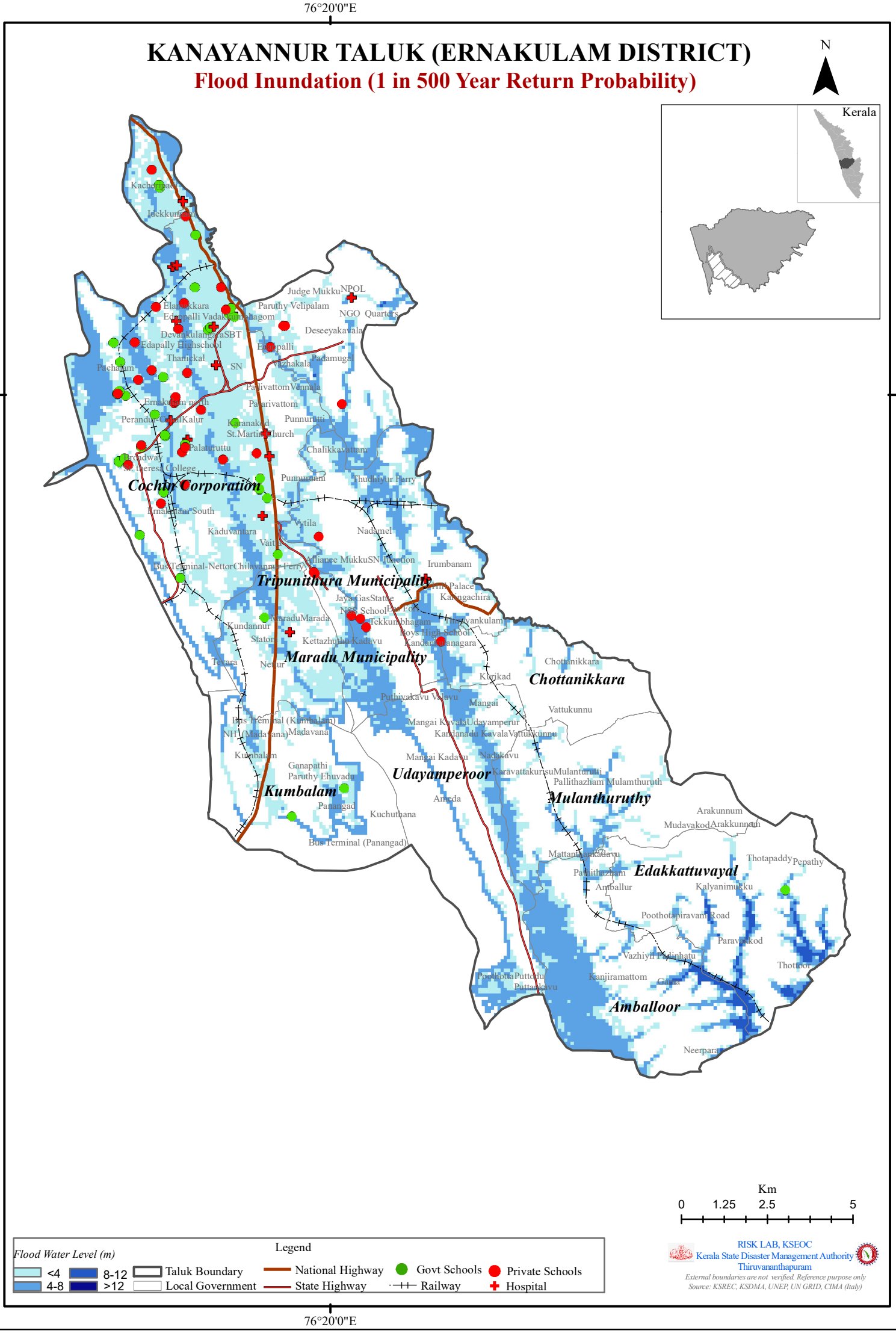
KANAYANNUR TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 200 Year Return Probability)



KANAYANNUR TALUK (ERNAKULAM DISTRICT)

Flood Inundation (1 in 500 Year Return Probability)



ERNAKULAM DISTRICT

KANAYANNUR TALUK

1 in 10 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Amballoor	9.80	9.44
2	Cheranalloor	1.11	7.11
3	Chottanikkara	1.40	4.12
4	Cochin Corporation	11.68	6.54
5	Edakkattuvayal	4.40	14.07
6	Kumbalam	4.00	3.81
7	Maradu Municipality	3.98	4.73
8	Mulanthuruthy	1.49	3.48
9	Sreemoolanagaram	3.23	11.03
10	Thrikkakara Municipality	3.52	9.87
11	Tripunithura Municipality	9.11	6.54
12	Udayamperoor	5.82	4.26

1 in 25 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Amballoor	10.33	9.84
2	Cheranalloor	2.31	8.12
3	Chottanikkara	1.47	4.27
4	Cochin Corporation	13.72	6.66
5	Edakkattuvayal	4.63	14.83
6	Kumbalam	4.05	4.01
7	Maradu Municipality	4.21	4.93
8	Mulanthuruthy	1.77	4.6
9	Sreemoolanagaram	4.16	12.29
10	Thrikkakara Municipality	3.69	9.99
11	Tripunithura Municipality	9.60	6.66
12	Udayamperoor	6.30	4.84

1 in 50 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Amballoor	10.58	10.13
2	Cheranalloor	2.45	8.23
3	Chottanikkara	1.51	4.42
4	Cochin Corporation	15.32	6.72
5	Edakkattuvayal	4.79	15.62
6	Kumbalam	4.13	4.29
7	Maradu Municipality	4.33	5
8	Mulanthuruthy	2.15	5.3
9	Sreemoolanagaram	4.75	13.18
10	Thrikkakara Municipality	3.72	10.01
11	Tripunithura Municipality	9.89	6.72
12	Udayamperoor	6.58	5.83

1 in 100 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Amballoor	11.02	10.41
2	Cheranalloor	2.74	8.35
3	Chottanikkara	1.57	4.92
4	Cochin Corporation	19.37	6.87
5	Edakkattuvayal	5.42	16.21
6	Kumbalam	4.36	4.81
7	Maradu Municipality	4.42	5.1
8	Mulanthuruthy	4.15	6.97
9	Sreemoolanagaram	5.20	13.93
10	Thrikkakara Municipality	4.10	10.01
11	Tripunithura Municipality	10.21	6.79
12	Udayamperoor	7.05	6.35

1 in 200 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Amballoor	11.24	10.69
2	Cheranalloor	3.02	8.47
3	Chottanikkara	1.79	5.73
4	Cochin Corporation	26.20	8.21
5	Edakkattuvayal	5.62	16.69
6	Kumbalam	4.48	5.08
7	Maradu Municipality	4.61	5.21
8	Mulanthuruthy	4.27	7.14
9	Sreemoolanagaram	5.41	14.66
10	Thrikkakara Municipality	4.57	10.06
11	Tripunithura Municipality	10.46	6.83
12	Udayamperoor	7.66	6.62

1 in 500 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Amballoor	11.57	11.18
2	Cheranalloor	3.65	9.15
3	Chottanikkara	1.84	5.92
4	Cochin Corporation	36.90	9.17
5	Edakkattuvayal	5.74	16.96
6	Kumbalam	4.71	5.29
7	Maradu Municipality	6.58	5.65
8	Mulanthuruthy	4.43	7.29
9	Sreemoolanagaram	5.47	15.18
10	Thrikkakara Municipality	5.03	10.1
11	Tripunithura Municipality	10.68	6.83
12	Udayamperoor	7.80	6.82

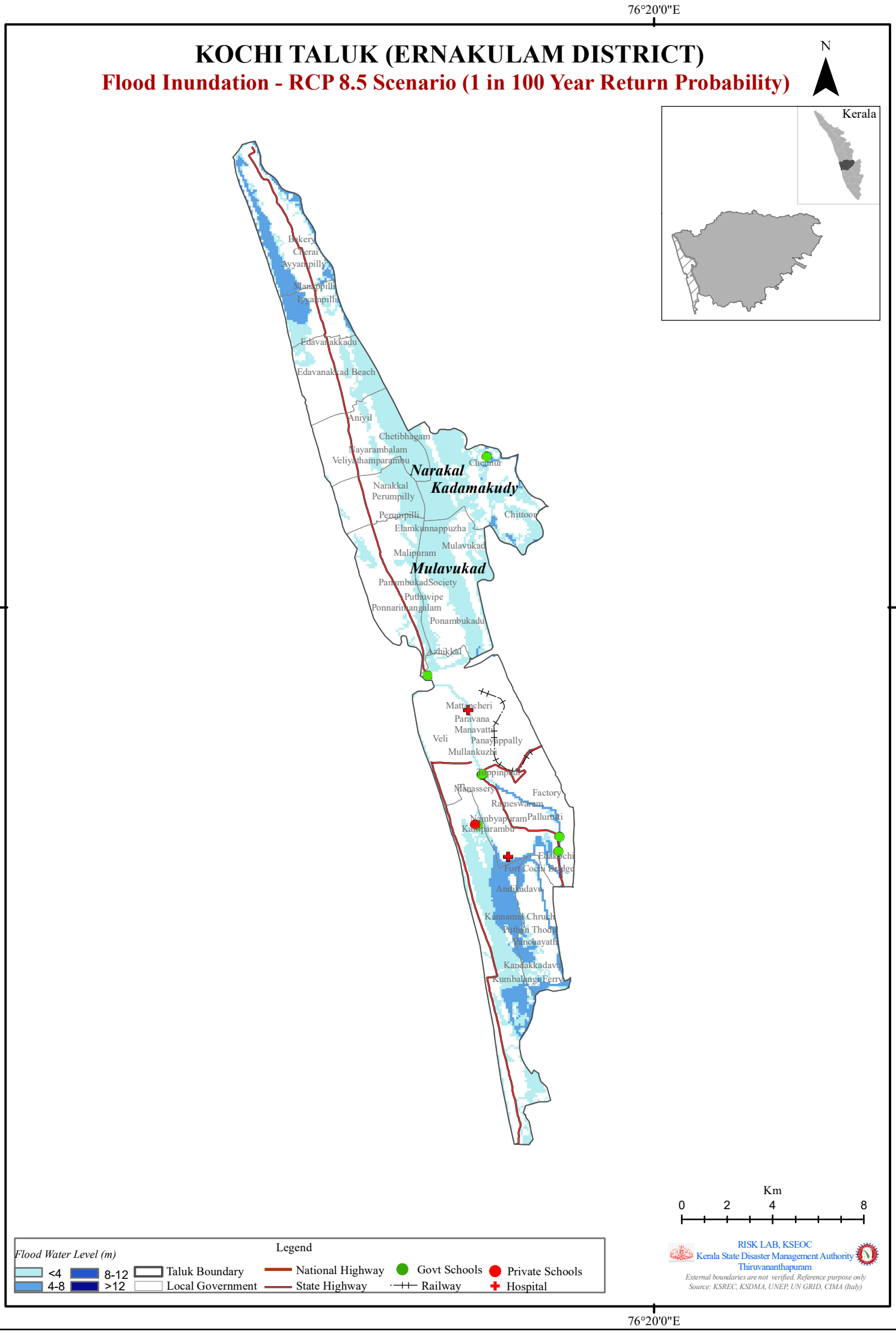
ERNAKULAM DISTRICT						
KANAYANNUR TALUK						
Name of exposed Hospital/School (LSG)	Return Probability (Climate Change Scenario - RCP 8.5)					
	1 in 10 Year	1 in 25 Year	1 in 50 Year	1 in 100 Year	1 in 200 Year	1 in 500 Year
Cheranalloor						
Hospital						
Cimar Hospital					✓	✓
School						
G.L.P.S Cheranelloor						✓
Little Flower L.P.S. Cheranelloor			✓	✓	✓	✓
Little Flower U.P.S. Cheranelloor						✓
Chottanikkara						
School						
G.J.B.S Kanayannoor	✓	✓	✓	✓	✓	✓
Cochin Corporation						
Hospital						
AIMS Hospital	✓	✓	✓	✓	✓	✓
Amritha Hospital		✓	✓	✓	✓	✓
CHC Edappally					✓	✓
Gitanjali Hospital				✓	✓	✓
MAJ Hospital					✓	✓
Pauls Kaloor					✓	✓
PVS Hospital					✓	✓
Renai Hospital						✓
Shanti Hospital					✓	✓
Vijayalakshmi Medical Centre						✓
Welcare Hospital						✓
School						
C.C.P.L.M.A.I.H.S. Perumanoor						✓
C.K.C H.S. Ponnurunny						✓
G.B.T.S L.P.S Edappally	✓	✓	✓	✓	✓	✓
G.L.P.S Ernakulam				✓	✓	✓
G.L.P.S Padivattom					✓	✓
G.L.P.S Ponnurunni	✓	✓	✓	✓	✓	✓
G.U.P.S Edappally				✓	✓	✓
Gg.U.P.S Ernakulam						✓
Govt. B.T.S. L.P.School Edappally						✓
Govt. H.S.S And V.H.S.S. Edappally North					✓	✓

Govt. L.P.S. Ponnurunni						✓
Govt. St. George L.P.S. Thiruvankulam				✓	✓	✓
Govt. U.P.S. Edappally					✓	✓
Govt. U.P.S. For Girls Ernakulam					✓	✓
Holy Family E.P.S Chathiath Vaduthala						✓
L.M.C.C.H.S. For Girls Chathiath				✓	✓	✓
Lady Of Mount Carmel Boys L.P.S. Chathiath				✓	✓	✓
Lady Of Mount Carmel C.G.L.P.S. Ernakulam						✓
Little Flower U.P.S. Kaloor				✓	✓	✓
Pius Girls H.S Edappally						✓
S.P.Y.L.P.S. Ponnurunni						✓
Sree Rudra Vilasom U.P.S. Ernakulam	✓	✓	✓	✓	✓	✓
SRV (D) L.P.S Ernakulam		✓	✓	✓	✓	✓
SRV (D) U.P.S Ernakulam						✓
St. Albert`S H.S.S. Ernakulam						✓
St. Antony`S H.S.S. Kacheripady						✓
St. Augustin`S H.S. Ernakulam					✓	✓
St. Augustine`S L.P.S. Ernakulam					✓	✓
St. Augustine`S U.P.S. Thykoodam					✓	✓
St. George`S H.S Edappally				✓	✓	✓
St. George`S U.P.S. Poonithura	✓	✓	✓	✓	✓	✓
St. George`S.L.P.S. Edappally				✓	✓	✓
St. Ignatious Leyola. L.P.S. Ponel					✓	✓
St. Joachim'S G.U.P.S. Kaloor						✓
St. Joseph`S H.S Chathiath					✓	✓

St. Joseph`S U.P.S. Karithala						✓
St. Mary`S C.G.H.S.S. Ernakulam						✓
St. Mary`S C.G.L.P.S. Ernakulam					✓	✓
St. Raphel`S L.P.S. Palarivattom					✓	✓
St. Ritas H.S. Ponnurunny						✓
Thatazham L.P.S. Vaduthala					✓	✓
Union L.P.S. Thrikkanarvattom					✓	✓
Edakkattuvayal						
School						
Govt. U P S Veliyanad	✓	✓	✓	✓	✓	✓
Kumbalam						
School						
Desabandhu School. Cheppanam	✓	✓	✓	✓	✓	✓
St. Antony`S U.P.S. Panangad	✓	✓	✓	✓	✓	✓
Maradu Municipality						
Hospital						
PS Mission Maradu						✓
School						
Govt. J.B.S Kundannoor						✓
Sreemoolanagaram						
School						
St. Joseph`S L. P. S. Thekkumbhagam	✓	✓	✓	✓	✓	✓
Thrikkakara Municipality						
Hospital						
Sunrise Hospital	✓	✓	✓	✓	✓	✓
School						
G.U.P.S Kakkanad	✓	✓	✓	✓	✓	✓
Tripunithura Municipality						
Hospital						
St George Hospital						✓
School						
G.K.M U.P.S Eroor	✓	✓	✓	✓	✓	✓

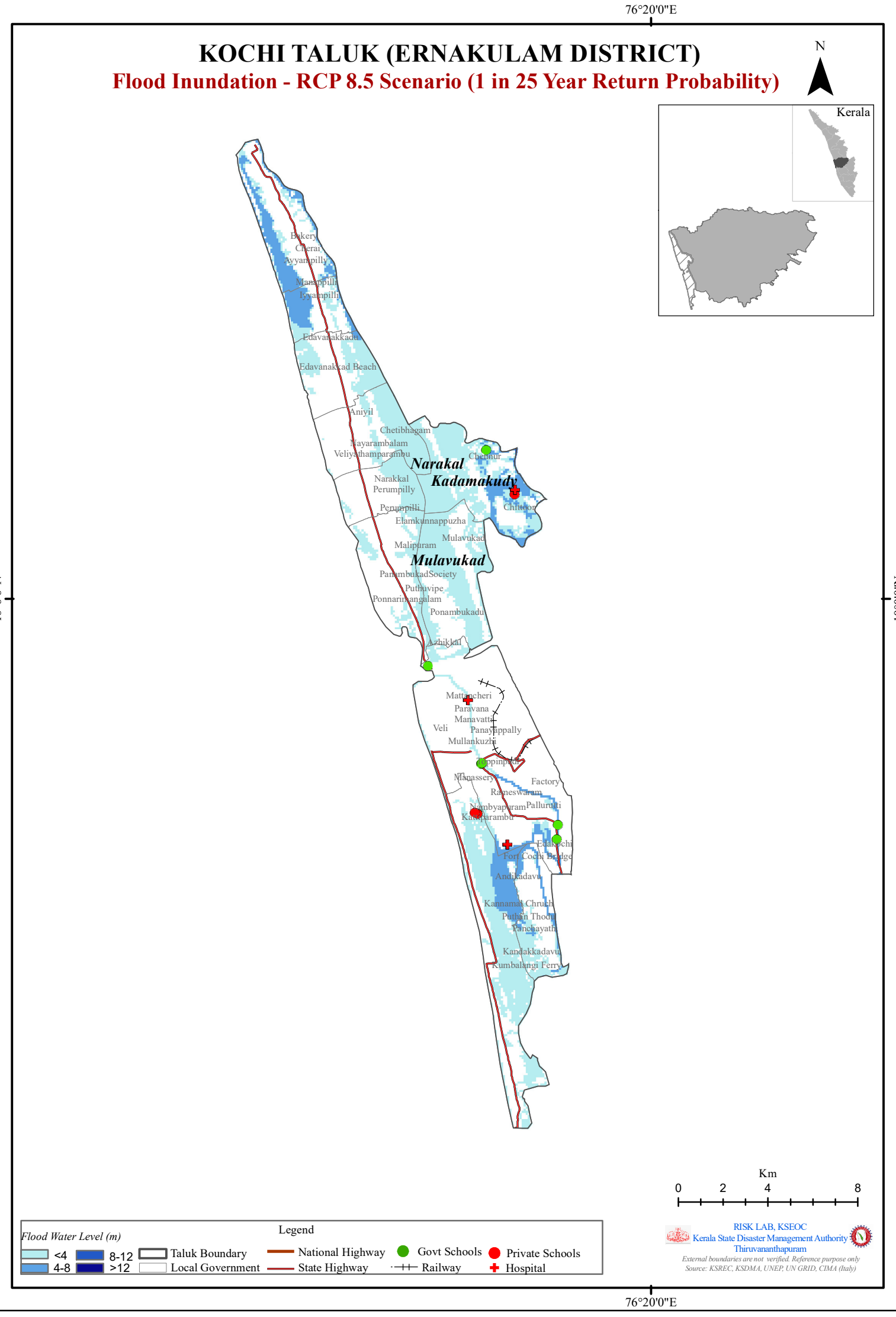
KOCHI TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 100 Year Return Probability)



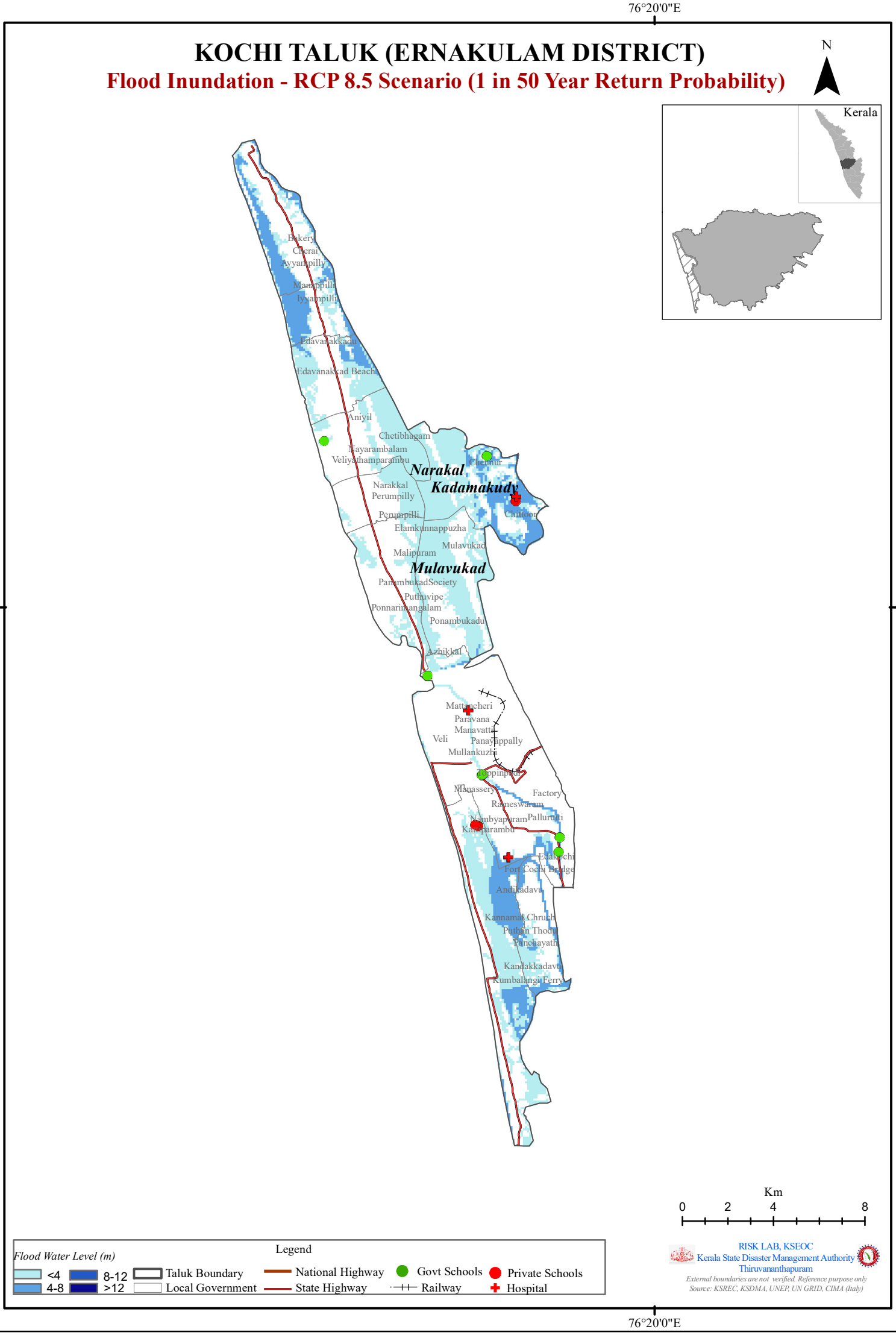
KOCHI TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 25 Year Return Probability)



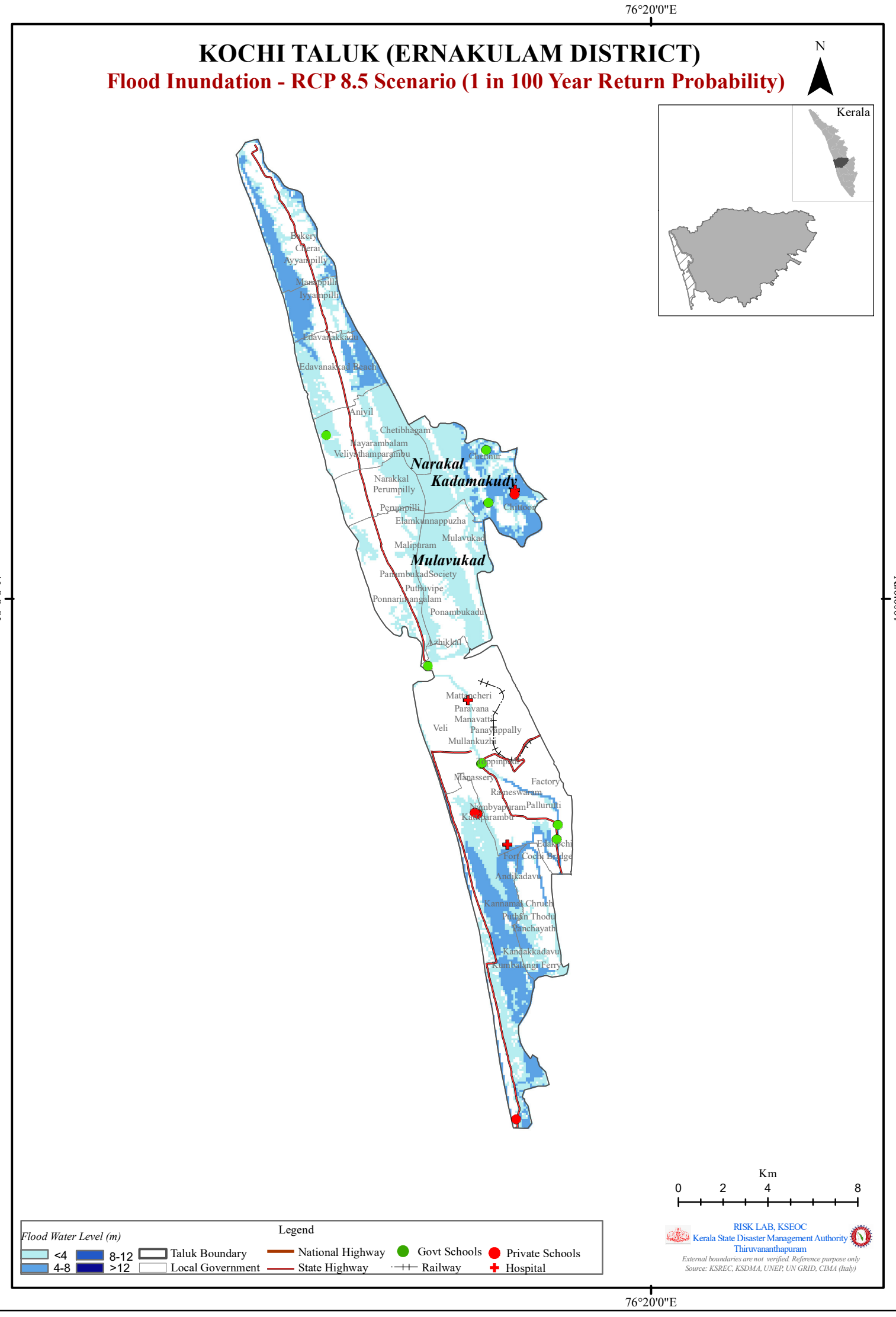
KOCHI TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 50 Year Return Probability)



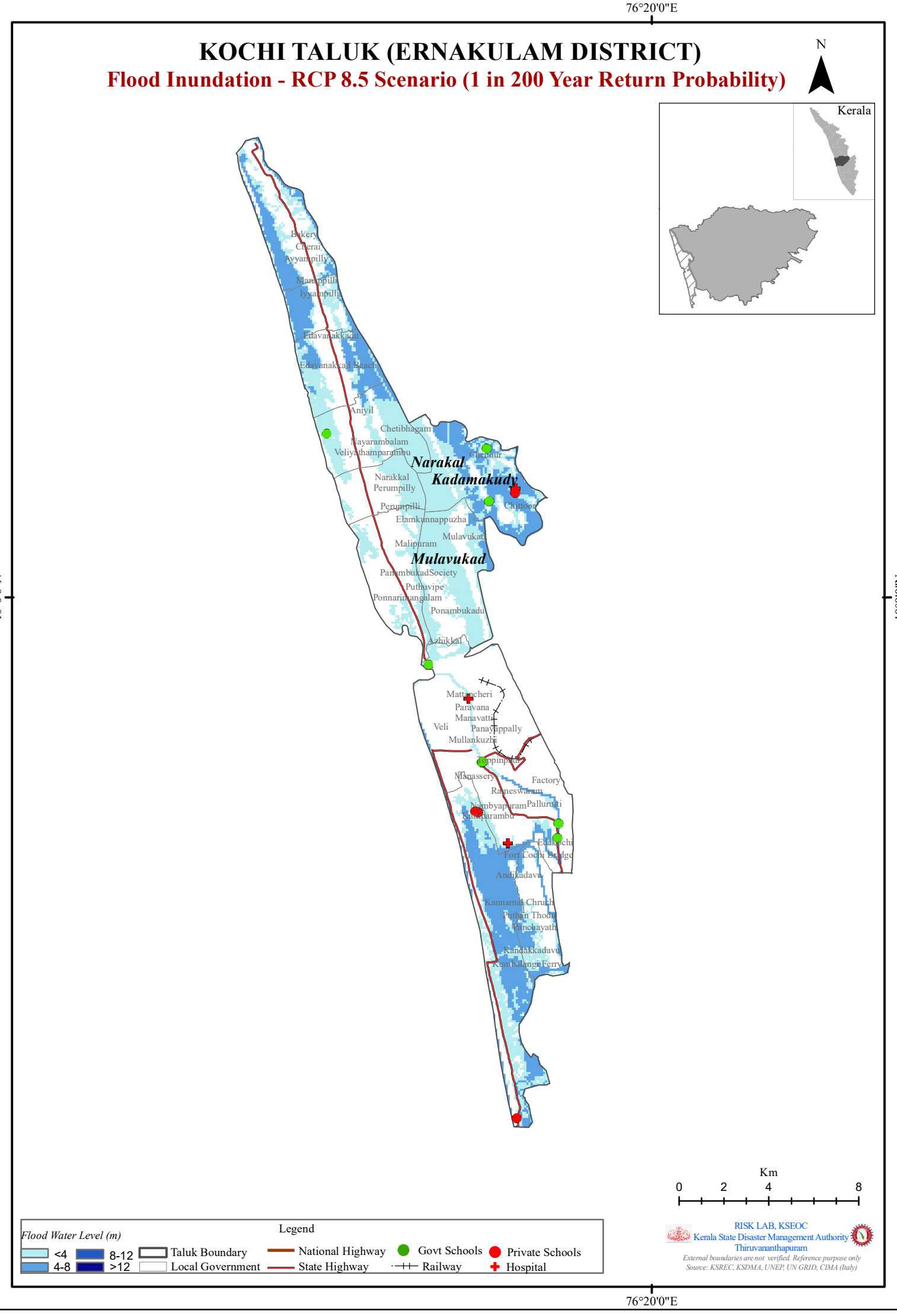
KOCHI TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 100 Year Return Probability)



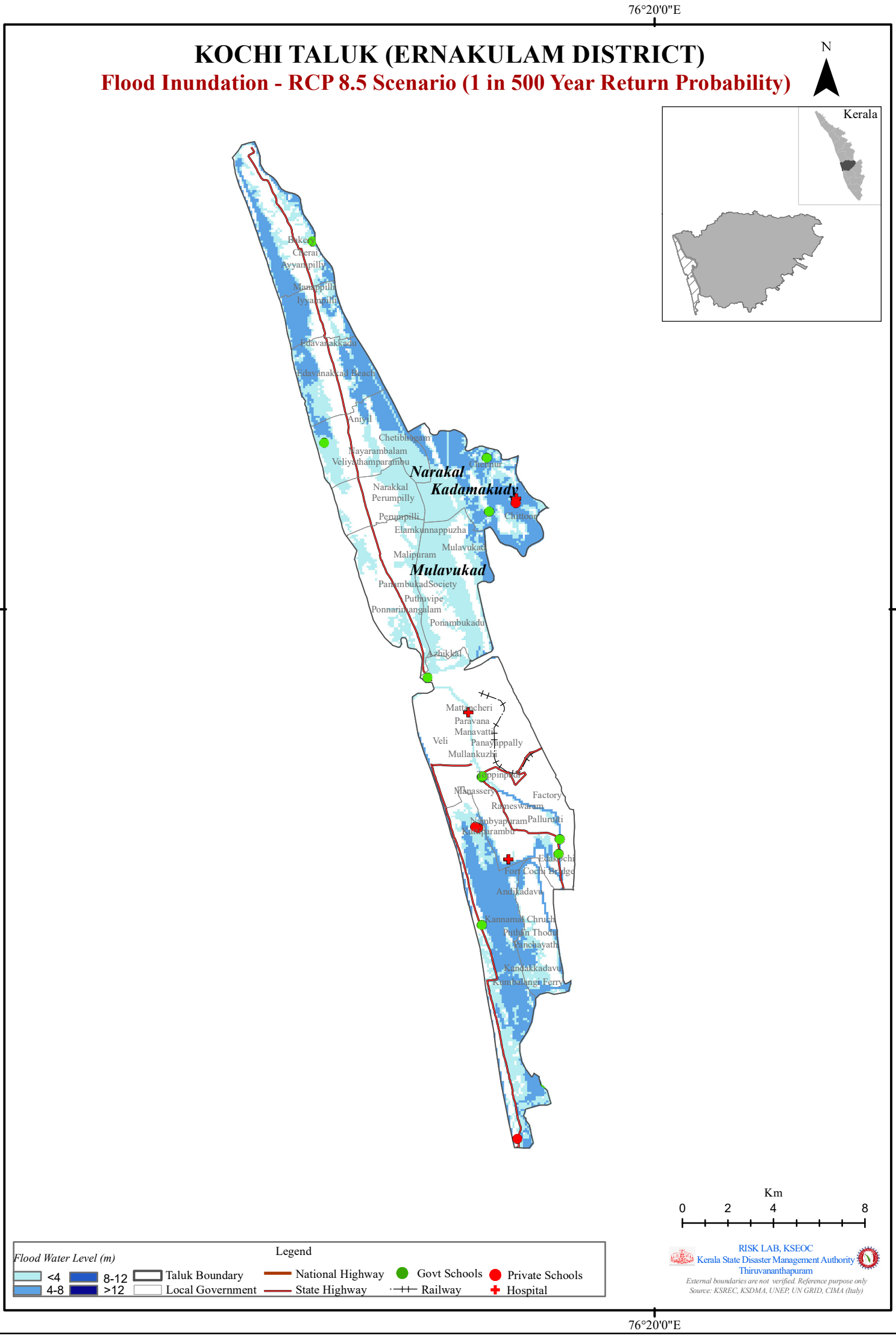
KOCHI TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 200 Year Return Probability)



KOCHI TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 500 Year Return Probability)



ERNAKULAM DISTRICT

KOCHI TALUK

1 in 10 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Chellanam	14.62	3.12
2	Cochin Corporation	3.88	3.09
3	Edavanakkad	3.34	2.39
4	Elankunnapuzha	3.08	2.24
5	Kadamakudy	11.10	4.33
6	Kumbalanghi	3.44	3.12
7	Kuzhuppilly	2.94	4.93
8	Mulavukad	9.61	2.51
9	Narakal	2.75	1.18
10	Nayarambalam	5.51	1.16
11	Pallippuram	5.37	6.73

1 in 25 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Chellanam	15.25	3.5
2	Cochin Corporation	4.08	3.5
3	Edavanakkad	4.33	3.27
4	Elankunnapuzha	3.42	2.54
5	Kadamakudy	13.02	8.09
6	Kumbalanghi	3.69	3.5
7	Kuzhuppilly	3.28	5.66
8	Mulavukad	9.82	2.83
9	Narakal	2.81	1.29
10	Nayarambalam	5.54	2.33
11	Pallippuram	5.75	7.12

1 in 50 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Chellanam	15.59	3.59
2	Cochin Corporation	4.17	3.6
3	Edavanakkad	5.34	3.93
4	Elankunnapuzha	3.62	2.75
5	Kadamakudy	13.94	8.2
6	Kumbalanghi	3.71	3.6
7	Kuzhuppilly	3.51	6.17
8	Mulavukad	10.01	3.86
9	Narakal	2.85	1.37
10	Nayarambalam	6.01	2.87
11	Pallippuram	5.99	7.31

1 in 100 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Chellanam	19.35	5.15
2	Cochin Corporation	4.24	3.7
3	Edavanakkad	6.22	5.17
4	Elankunnapuzha	3.76	2.86
5	Kadamakudy	14.69	8.31
6	Kumbalanghi	3.90	3.87
7	Kuzhuppilly	3.78	6.55
8	Mulavukad	10.23	5.23
9	Narakal	2.87	1.47
10	Nayarambalam	7.25	3.44
11	Pallippuram	6.77	7.57

1 in 200 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Chellanam	19.73	5.33
2	Cochin Corporation	4.30	3.8
3	Edavanakkad	6.54	5.52
4	Elankunnapuzha	3.96	2.91
5	Kadamakudy	15.26	8.42
6	Kumbalanghi	4.08	4.18
7	Kuzhuppilly	3.90	6.75
8	Mulavukad	10.56	6.01
9	Narakal	3.13	2.24
10	Nayarambalam	7.93	3.82
11	Pallippuram	6.87	7.65

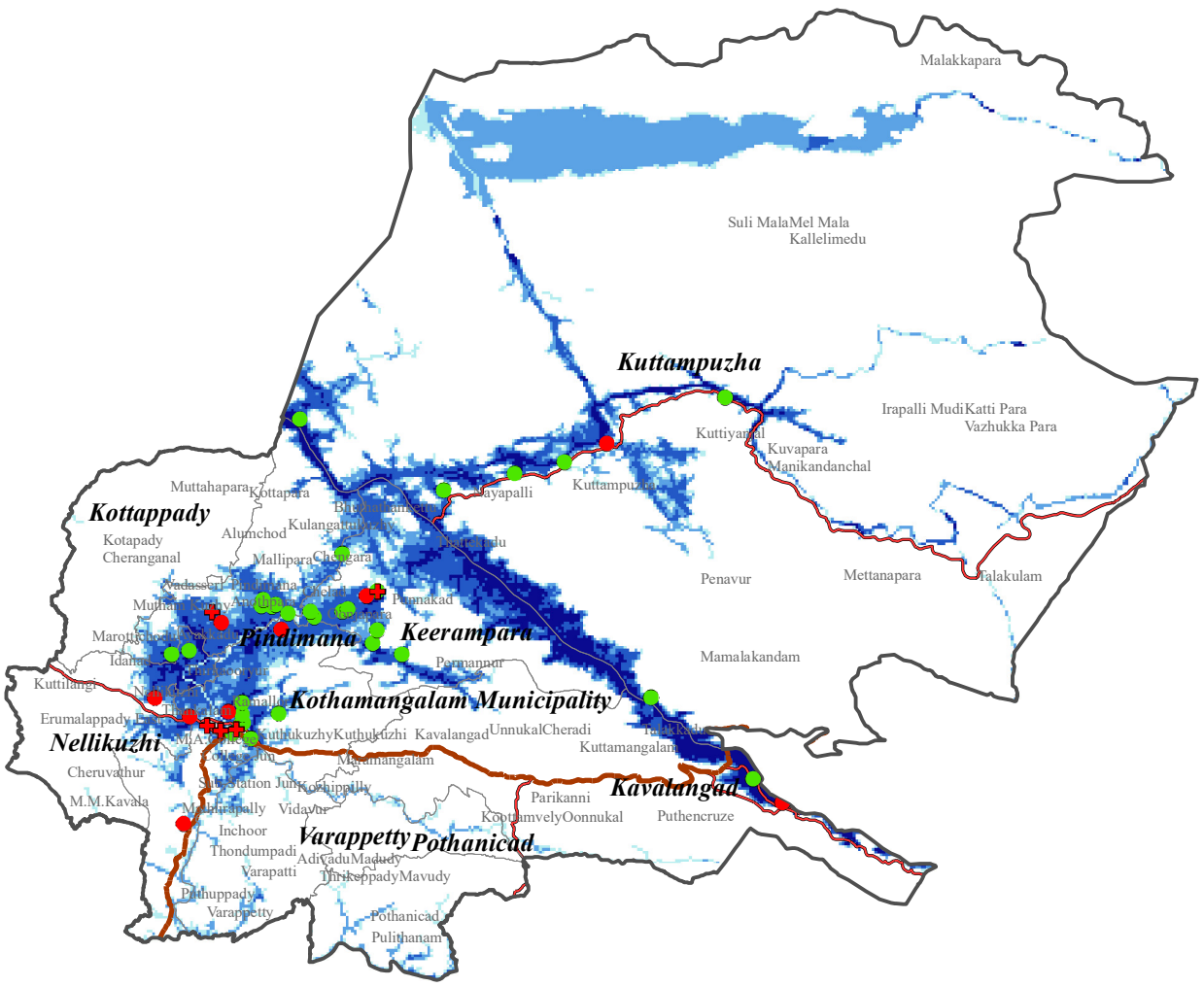
1 in 500 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Chellanam	20.19	5.62
2	Cochin Corporation	4.31	3.9
3	Edavanakkad	6.90	6.13
4	Elankunnapuzha	4.26	3.11
5	Kadamakudy	15.62	8.76
6	Kumbalanghi	4.20	4.45
7	Kuzhuppilly	4.01	7.16
8	Mulavukad	10.68	6.36
9	Narakal	3.16	2.86
10	Nayarambalam	8.21	4.23
11	Pallippuram	7.00	7.77

ERNAKULAM DISTRICT						
KOCHI TALUK						
Name of exposed Hospital/School (LSG)	**Return Probability (Climate Change Scenario - RCP 8.5)**					
	1 in 10 Year	1 in 25 Year	1 in 50 Year	1 in 100 Year	1 in 200 Year	1 in 500 Year
Chellanam						
School						
G.H.S S Puthenthode	✓	✓	✓	✓	✓	✓
S.D.P.Y .Boys H.S.S. Palluruthy	✓	✓	✓	✓	✓	✓
St. Joseph`S. L.P.S Cheriyakadavu						✓
Cochin Corporation						
Hospital						
Fathima Hospital Perumpadappu	✓	✓	✓	✓	✓	✓
W & C Mattanchery	✓	✓	✓	✓	✓	✓
School						
Canossa U.P.S. Vypeen	✓	✓	✓	✓	✓	✓
Govt. H.S. Edacochi	✓	✓	✓	✓	✓	✓
St. Lawrence`S U.P.S. Edacochi	✓	✓	✓	✓	✓	✓
St. Sebastian`S H.S.S. Palluruthy	✓	✓	✓	✓	✓	✓
St. Sebastian`S. L.P.S. Palluruthy	✓	✓	✓	✓	✓	✓
Kadamakudy						
Hospital						
Aster Medicity		✓	✓	✓	✓	✓
School						
Angel Mary Memorial L.Ps Chennur	✓	✓	✓	✓	✓	✓
G.L.P.S Cheranelloor		✓	✓	✓	✓	✓
St. Joseph`S L.P.S. Moolampilly				✓	✓	✓
Nayarambalam						
School						
S.B.S.L.P.S. Puthenkadappuram			✓	✓	✓	✓
Pallippuram						
School						
Technical Hs Mulanthuruthy						✓

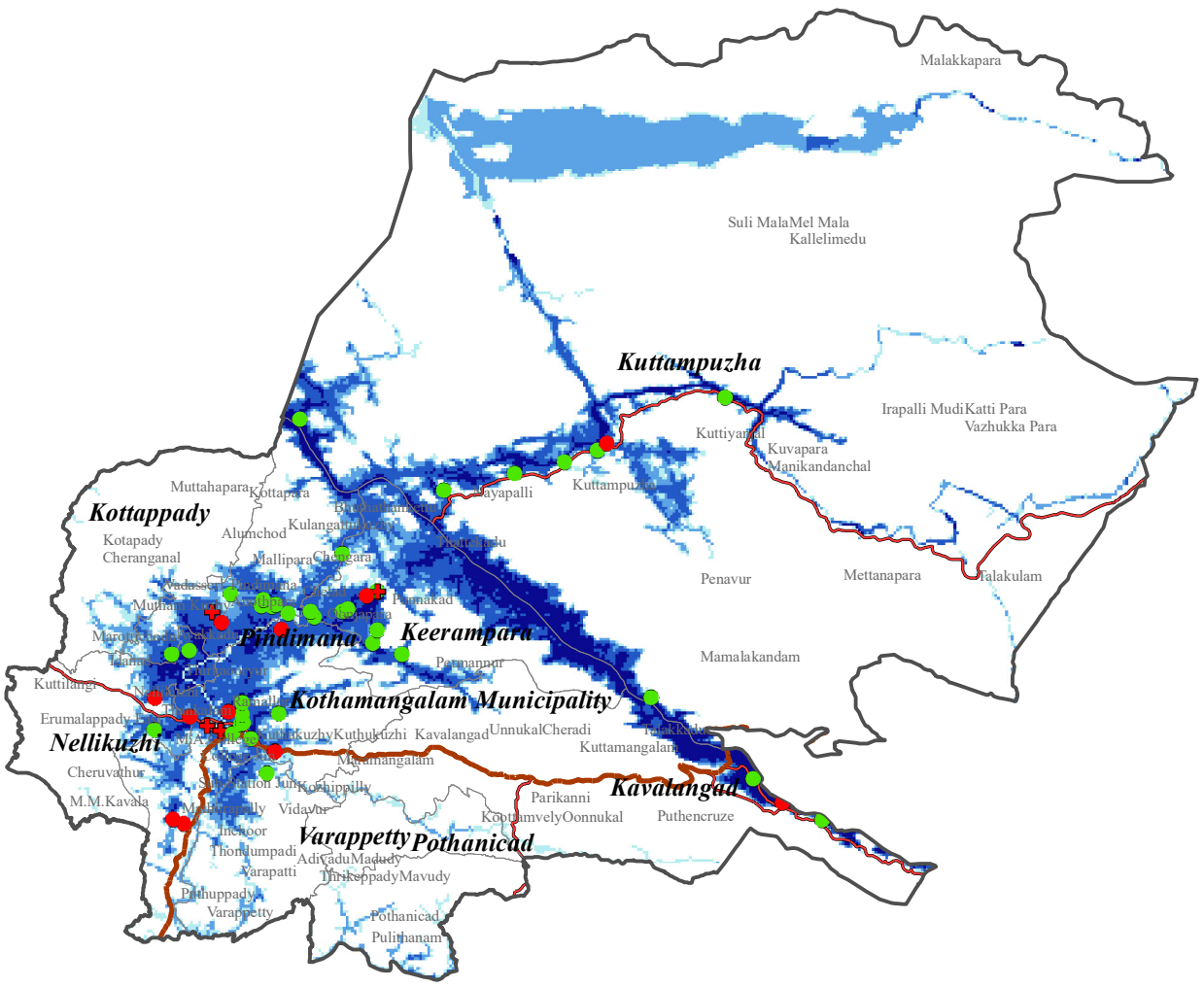
KOTHAMANGALAM TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 10 Year Return Probability)



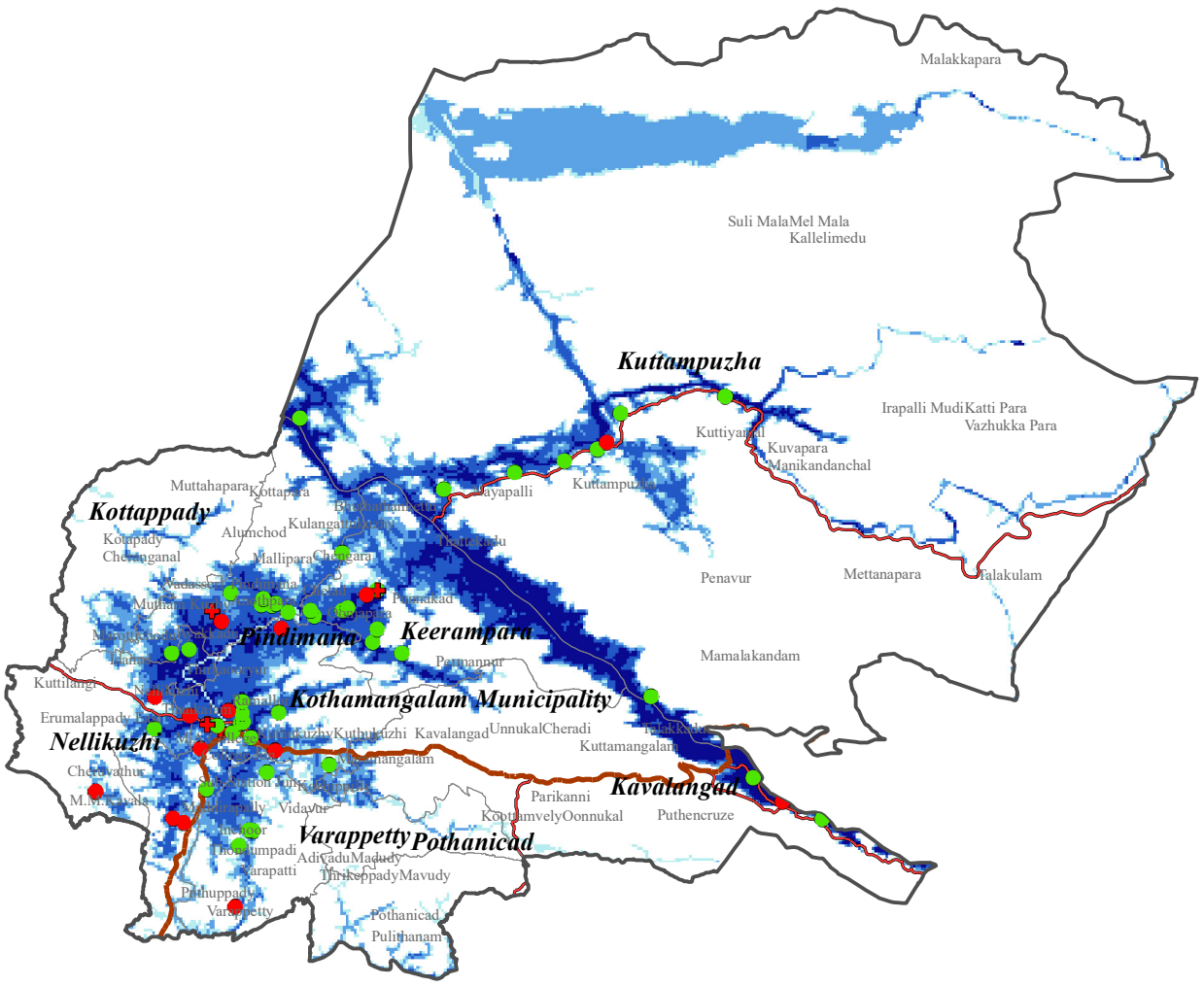
KOTHAMANGALAM TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 25 Year Return Probability)



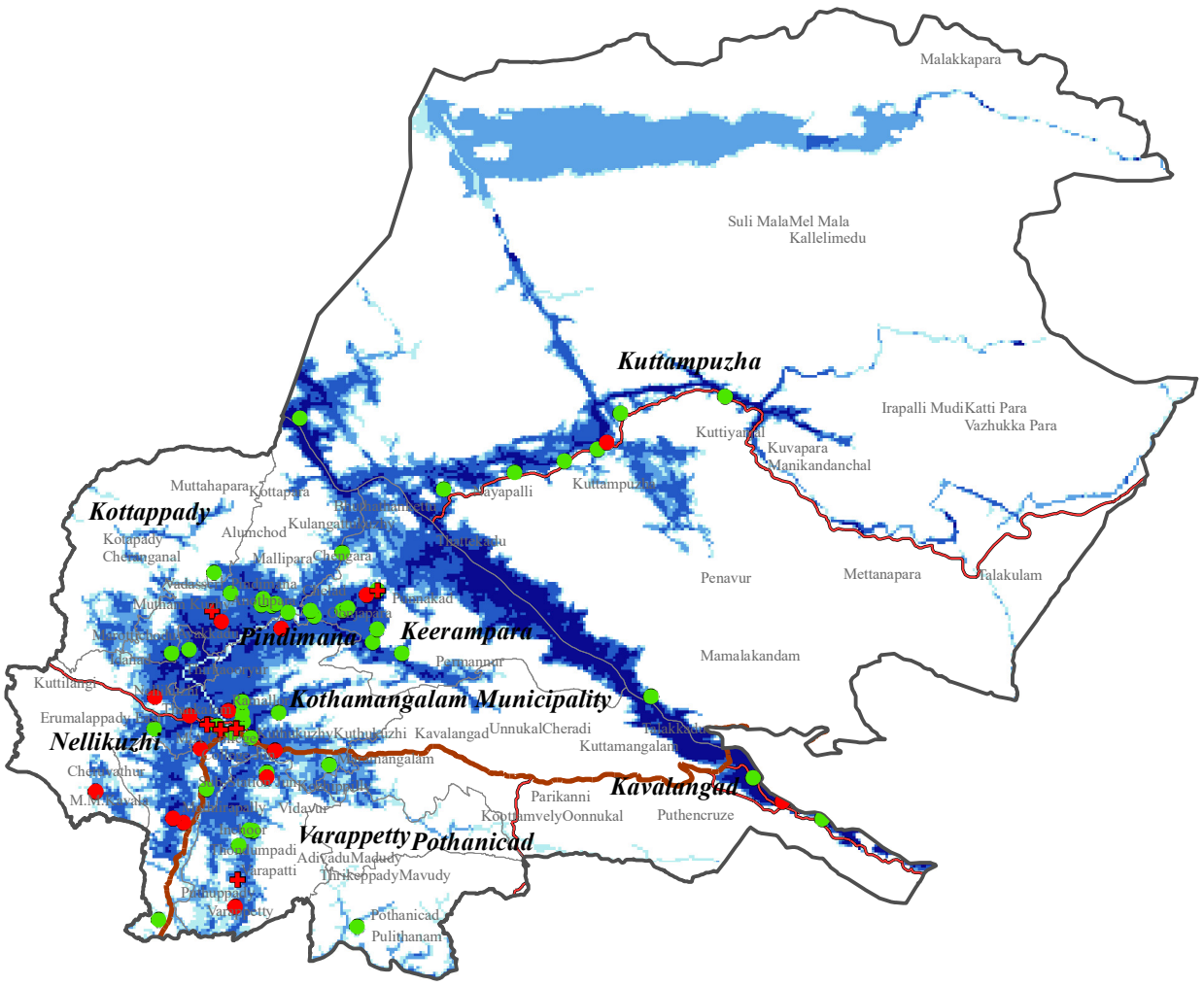
KOTHAMANGALAM TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 50 Year Return Probability)



KOTHAMANGALAM TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 100 Year Return Probability)



Km
0 2.25 4.5 9

Legend

Flood Water Level (m)
<4
4-8
8-12
>12

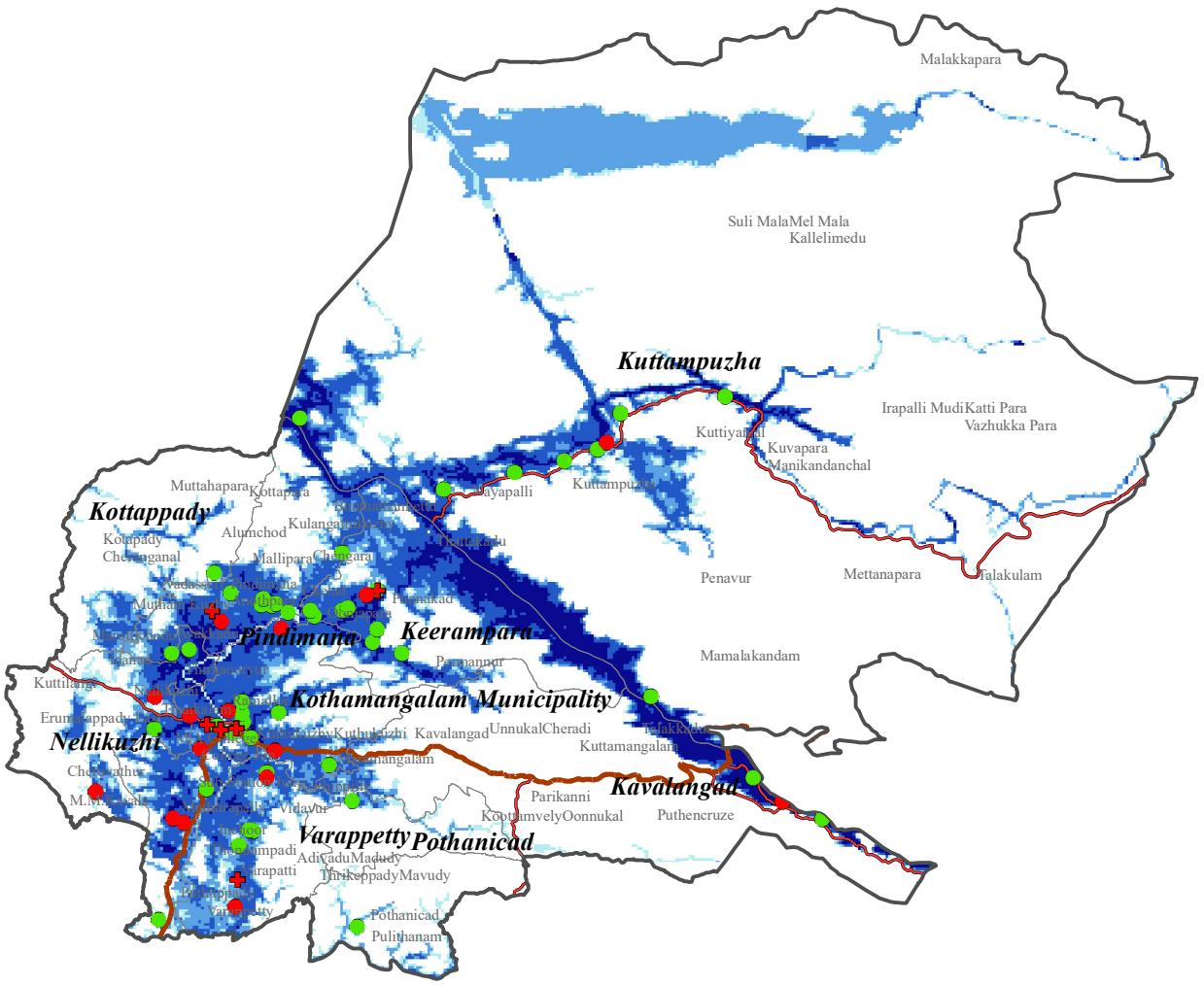
Taluk Boundary
Local Government
National Highway
State Highway
Govt Schools
Railway
Private Schools
Hospital

RISK LAB, KSEOC
Kerala State Disaster Management Authority
Thiruvananthapuram

External boundaries are not verified. Reference purpose only
Source: KSREC, KSDMA, UNEP, UN GRID, CIMA (Italy)

KOTHAMANGALAM TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 200 Year Return Probability)

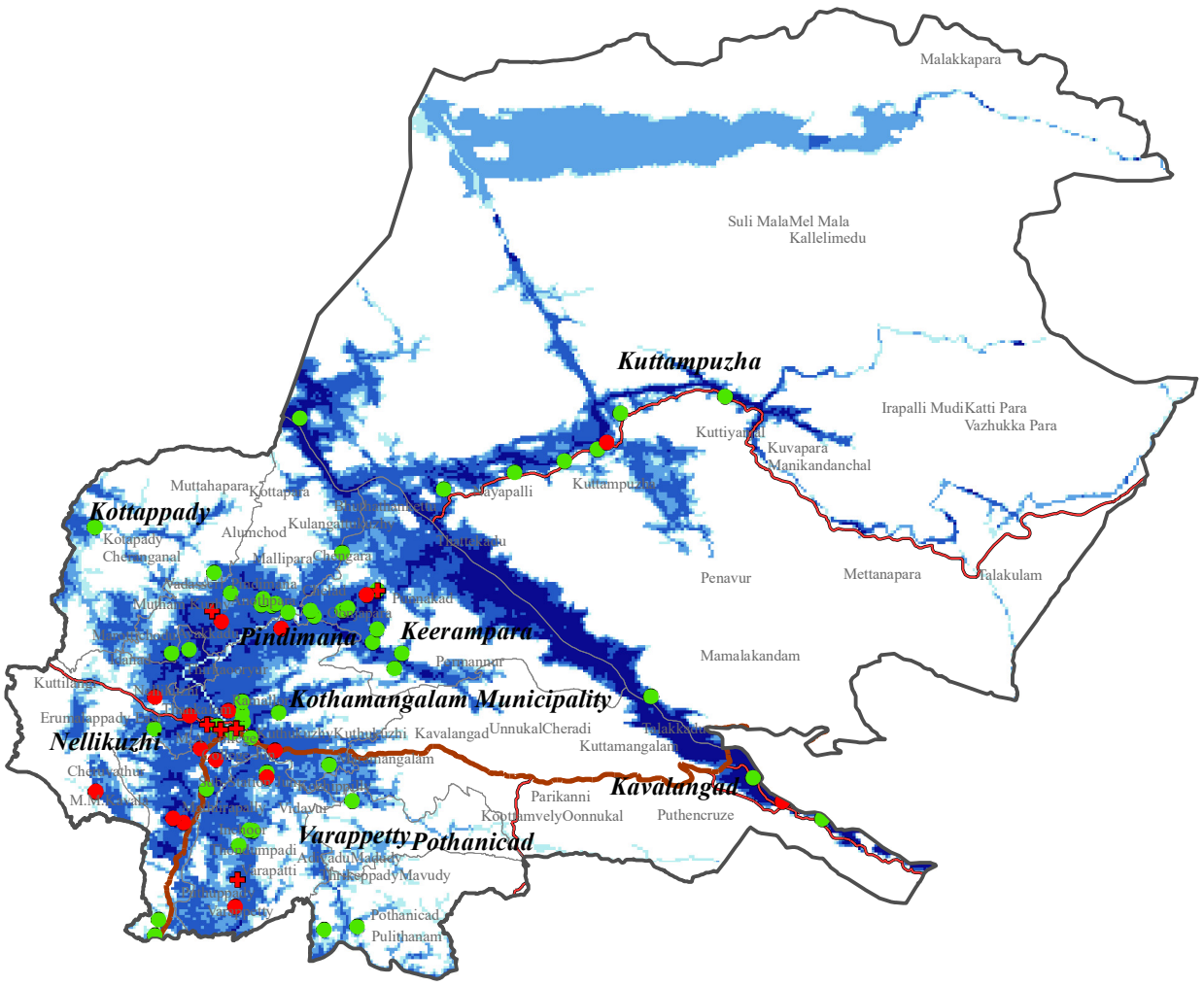


RISK LAB, KSEOC
Kerala State Disaster Management Authority
Thiruvananthapuram

External boundaries are not verified. Reference purpose only
Source: KSREC, KSDMA, UNEP, UN GRID, CIMA (Italy)

KOTHAMANGALAM TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 500 Year Return Probability)



ERNAKULAM DISTRICT

KOTHAMANGALAM TALUK

1 in 10 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Kavalangad	7.36	33.11
2	Keerampara	22.24	23.62
3	Kothamangalam Municipality	15.55	20.56
4	Kottappady	0.63	8.43
5	Kuttampuzha	67.34	57.2
6	Nellikuzhi	5.87	21.58
7	Pallarimangalam	0.78	3.8
8	Pindimana	12.56	32.9
9	Pothanicad	2.08	9.22
10	Varappetty	3.51	12.66

1 in 25 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Kavalangad	7.85	38.38
2	Keerampara	23.58	26.82
3	Kothamangalam Municipality	20.29	22.43
4	Kottappady	2.75	11.62
5	Kuttampuzha	71.05	57.2
6	Nellikuzhi	6.93	23.97
7	Pallarimangalam	0.84	4
8	Pindimana	13.91	36.19
9	Pothanicad	2.27	10.46
10	Varappetty	5.74	18.08

1 in 50 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Kavalangad	9.77	41.57
2	Keerampara	24.28	29.02
3	Kothamangalam Municipality	25.34	22.75
4	Kottappady	5.53	15.62
5	Kuttampuzha	73.54	57.21
6	Nellikuzhi	8.60	24.91
7	Pallarimangalam	1.31	16.25
8	Pindimana	14.40	38.35
9	Pothanicad	2.43	10.66
10	Varappetty	8.73	20.29

1 in 100 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Kavalangad	10.29	45.34
2	Keerampara	24.74	30.82
3	Kothamangalam Municipality	27.73	23.34
4	Kottappady	6.17	16.94
5	Kuttampuzha	75.67	57.21
6	Nellikuzhi	9.06	26.07
7	Pallarimangalam	1.41	16.25
8	Pindimana	14.93	40.23
9	Pothanicad	2.59	11.16
10	Varappetty	11.97	21.83

1 in 200 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Kavalangad	10.79	48.03
2	Keerampara	25.11	32.62
3	Kothamangalam Municipality	29.09	25.57
4	Kottappady	6.73	18.02
5	Kuttampuzha	77.74	57.21
6	Nellikuzhi	11.29	26.79
7	Pallarimangalam	1.48	16.29
8	Pindimana	15.47	41.72
9	Pothanicad	2.78	12.06
10	Varappetty	13.91	22.71

1 in 500 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Kavalangad	11.18	51.71
2	Keerampara	25.70	34.82
3	Kothamangalam Municipality	29.87	27.63
4	Kottappady	11.19	19.64
5	Kuttampuzha	80.37	57.21
6	Nellikuzhi	11.79	27.85
7	Pallarimangalam	3.25	17.22
8	Pindimana	15.98	43.9
9	Pothanicad	5.26	21.29
10	Varappetty	16.00	23.64

ERNAKULAM DISTRICT						
KOTHAMANGALAM TALUK						
Name of exposed Hospital/School (LSG)	Return Probability (Climate Change Scenario - RCP 8.5)					
	1 in 10 Year	1 in 25 Year	1 in 50 Year	1 in 100 Year	1 in 200 Year	1 in 500 Year
Kavalangad						
School						
G.U.P.S Thalacode	✓	✓	✓	✓	✓	✓
Govt. HwUPS Neriamangalam		✓	✓	✓	✓	✓
Govt. V H S S Neriamangalam	✓	✓	✓	✓	✓	✓
Keerampara						
Hospital						
PHC Punnekkad	✓	✓	✓	✓	✓	✓
School						
G.L.P.S Punnekkad	✓	✓	✓	✓	✓	✓
Govt. LPS Palamattam	✓	✓	✓	✓	✓	✓
Govt. LPS Punnekkadu	✓	✓	✓	✓	✓	✓
Govt. UPS Chenkara	✓	✓	✓	✓	✓	✓
Mar Stephen`S LPS Keerampara	✓	✓	✓	✓	✓	✓
Mar Thoma LPS Keerampara	✓	✓	✓	✓	✓	✓
St. Joseph`S H S Velielchal	✓	✓	✓	✓	✓	✓
St. Stephen`S Girls H S Keerampara	✓	✓	✓	✓	✓	✓
St. Stephen`S H S S Keerampara	✓	✓	✓	✓	✓	✓
St. Thomas LPS Nadukani						✓
St. Thomas UPS Nadukani	✓	✓	✓	✓	✓	✓
Kothamangalam Municipality						
Hospital						
Marbaselious Ktmlm	✓	✓	✓	✓	✓	✓
MBMM Hospital	✓	✓	✓	✓	✓	✓
St George Hospital Dharmagiri	✓	✓	✓	✓	✓	✓
THQH Kothamangalam	✓	✓	✓	✓	✓	✓
School						
Fathima LPS Karakunnam						✓
Fr. Joseph Memorial H S S Puthuppady				✓	✓	✓
Fr.J.B.M.U.P.S, Malayinkeezhu	✓	✓	✓	✓	✓	✓
G.U.P.S Kothamangalam	✓	✓	✓	✓	✓	✓
Govt. H S Ayyankavu	✓	✓	✓	✓	✓	✓
Govt. LPS Karingazha	✓	✓	✓	✓	✓	✓
Govt. LPS Kothamangalam	✓	✓	✓	✓	✓	✓
Govt. LPS Maramangalam			✓	✓	✓	✓
Govt. UPS Kothamangalam			✓	✓	✓	✓
Govt. V H S S Mathirappilly			✓	✓	✓	✓
Kothamangalam	✓	✓	✓	✓	✓	✓
Mar Basil H S S Kothamangalam	✓	✓	✓	✓	✓	✓
Sacred Heart LPS Ramallur	✓	✓	✓	✓	✓	✓

St. Augustine`S Girls H S S Kothamangalam	✓	✓	✓	✓	✓	✓
Kottappady						
School						
Govt. LPS Kottappady North						✓
M D H S Tholely Ayroorpadam				✓	✓	✓
Mar Elias H S S Kottappady						✓
Kuttampuzha						
School						
Govt. HwUPS Thattekkad	✓	✓	✓	✓	✓	✓
Govt. LPS Kuttampuzha	✓	✓	✓	✓	✓	✓
Govt. LPS Kuttiamchal			✓	✓	✓	✓
Govt. UPS Edamalayar	✓	✓	✓	✓	✓	✓
P.S Thattekkad	✓	✓	✓	✓	✓	✓
St. Antony`S UPS Njayappilly	✓	✓	✓	✓	✓	✓
St. George`S H S S Kothamangalam		✓	✓	✓	✓	✓
St. George`S UPS Pooyamkutty	✓	✓	✓	✓	✓	✓
St. Mary`S LPS Inchathotty	✓	✓	✓	✓	✓	✓
Nellikuzhi						
School						
D B H S Thrikkariyoor	✓	✓	✓	✓	✓	✓
G.U.P.S Kuttilanji	✓	✓	✓	✓	✓	✓
LPS Elampra		✓	✓	✓	✓	✓
Pallarimangalam						
School						
Seethi Sahib Memorial LPS Kodamunda					✓	✓
Pindimana						
Hospital						
JPM Hospital Ayoorpadam	✓	✓	✓	✓	✓	✓
School						
Agcm UPS Uppukandam	✓	✓	✓	✓	✓	✓
Athanickal UPS Pindimana		✓	✓	✓	✓	✓
Fathima Matha UPS Malippara	✓	✓	✓	✓	✓	✓
G.U.P.S Chenkara	✓	✓	✓	✓	✓	✓
Govt. UPS Pindimana	✓	✓	✓	✓	✓	✓
Josephine LPS Vettampara	✓	✓	✓	✓	✓	✓
NSS UPS Thrikkariyoor	✓	✓	✓	✓	✓	✓
T V Joseph Memorial H S Pindimana	✓	✓	✓	✓	✓	✓
Pothanicad						
School						
St. John`S H S Pulinthanam				✓	✓	✓
St. Stephen`S L P S Parambenchery						✓
Varappetty						
Hospital						
CHC Varapetty				✓	✓	✓
School						
G.L.P.S Kozhippilly			✓	✓	✓	✓

Govt. LPS Kozhippilly		✓	✓	✓	✓	✓
Govt. LPS Varappetty			✓	✓	✓	✓
N S S H S S Varappetty			✓	✓	✓	✓
Technical Hs Varappetty			✓	✓	✓	✓

KUNNATHUNAD TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 10 Year Return Probability)

KUNNATHUNAD TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 25 Year Return Probability)

KUNNATHUNAD TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 50 Year Return Probability)

KUNNATHUNAD TALUK (ERNAKULAM DISTRICT)

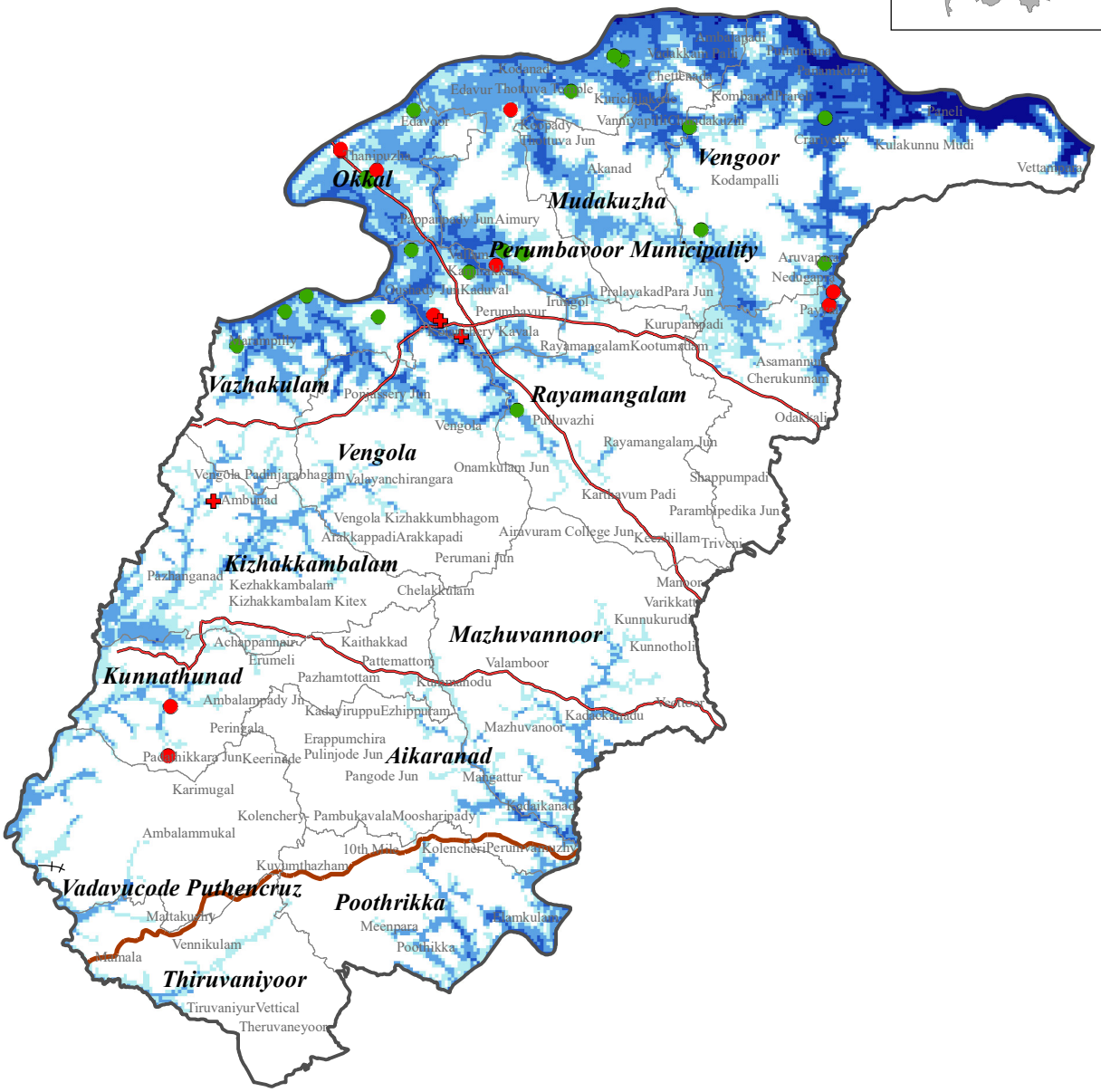
Flood Inundation - RCP 8.5 Scenario (1 in 100 Year Return Probability)

KUNNATHUNAD TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 200 Year Return Probability)

KUNNATHUNAD TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 500 Year Return Probability)



ERNAKULAM DISTRICT

KUNNATHUNAD TALUK

1 in 10 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Aikaranad	1.48	8.94
2	Kizhakkambalam	3.44	3.05
3	Koovappady	13.86	21.98
4	Kunnathunad	3.55	5.67
5	Mazhuvannoor	3.53	8.13
6	Mudakuzha	3.35	8.46
7	Okkal	5.72	11.98
8	Perumbavoor Municipality	2.83	12.02
9	Poothrikka	4.21	10.8
10	Rayamangalam	0.37	5.46
11	Thiruvaniyoor	1.93	4.79
12	Vadavucode Puthencruz	2.80	9.68
13	Vazhakulam	5.21	11.98
14	Vengola	1.59	9.54
15	Vengoor	15.23	41.07

1 in 25 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Aikaranad	1.83	9.84
2	Kizhakkambalam	3.54	3.11
3	Koovappady	17.22	23.78
4	Kunnathunad	3.72	5.72
5	Mazhuvannoor	3.90	9.03
6	Mudakuzha	5.34	9.57
7	Okkal	7.32	13.78
8	Perumbavoor Municipality	3.98	13.76
9	Poothrikka	4.67	11.69
10	Rayamangalam	0.52	7.27
11	Thiruvaniyoor	1.95	4.8
12	Vadavucode Puthencruz	2.89	9.7
13	Vazhakulam	6.53	13.72
14	Vengola	2.89	11.98
15	Vengoor	17.60	46.4

1 in 50 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Aikaranad	1.98	10.34
2	Kizhakkambalam	4.18	5.31
3	Koovappady	18.86	24.79
4	Kunnathunad	3.90	5.73
5	Mazhuvannoor	4.65	9.53
6	Mudakuzha	5.88	10.76
7	Okkal	8.65	14.07
8	Perumbavoor Municipality	4.56	14.6
9	Poothrikka	4.96	12
10	Rayamangalam	0.67	7.82
11	Thiruvaniyoor	2.15	4.81
12	Vadavucode Puthencruz	3.00	9.7
13	Vazhakulam	7.47	14.36
14	Vengola	3.16	12.73
15	Vengoor	19.05	49.87

1 in 100 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Aikaranad	2.57	10.94
2	Kizhakkambalam	6.32	8.3
3	Koovappady	20.36	25.69
4	Kunnathunad	4.15	5.78
5	Mazhuvannoor	5.20	10.13
6	Mudakuzha	6.51	12.92
7	Okkal	9.66	14.99
8	Perumbavoor Municipality	4.95	15.44
9	Poothrikka	5.20	12.5
10	Rayamangalam	0.78	8.52
11	Thiruvaniyoor	2.19	4.81
12	Vadavucode Puthencruz	3.02	9.71
13	Vazhakulam	8.61	15.2
14	Vengola	3.95	13.6
15	Vengoor	20.61	52.21

1 in 200 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Aikaranad	2.59	10.94
2	Kizhakkambalam	7.27	9.9
3	Koovappady	21.25	26.49
4	Kunnathunad	4.17	5.87
5	Mazhuvannoor	5.47	10.18
6	Mudakuzha	7.02	14.47
7	Okkal	10.42	15.92
8	Perumbavoor Municipality	5.90	16.34
9	Poothrikka	5.43	13.09
10	Rayamangalam	2.15	9.23
11	Thiruvaniyoor	2.23	4.81
12	Vadavucode Puthencruz	3.06	9.75
13	Vazhakulam	9.24	16.09
14	Vengola	6.13	14.59
15	Vengoor	21.77	53.69

1 in 500 YEAR (CC – RCP 8.5)

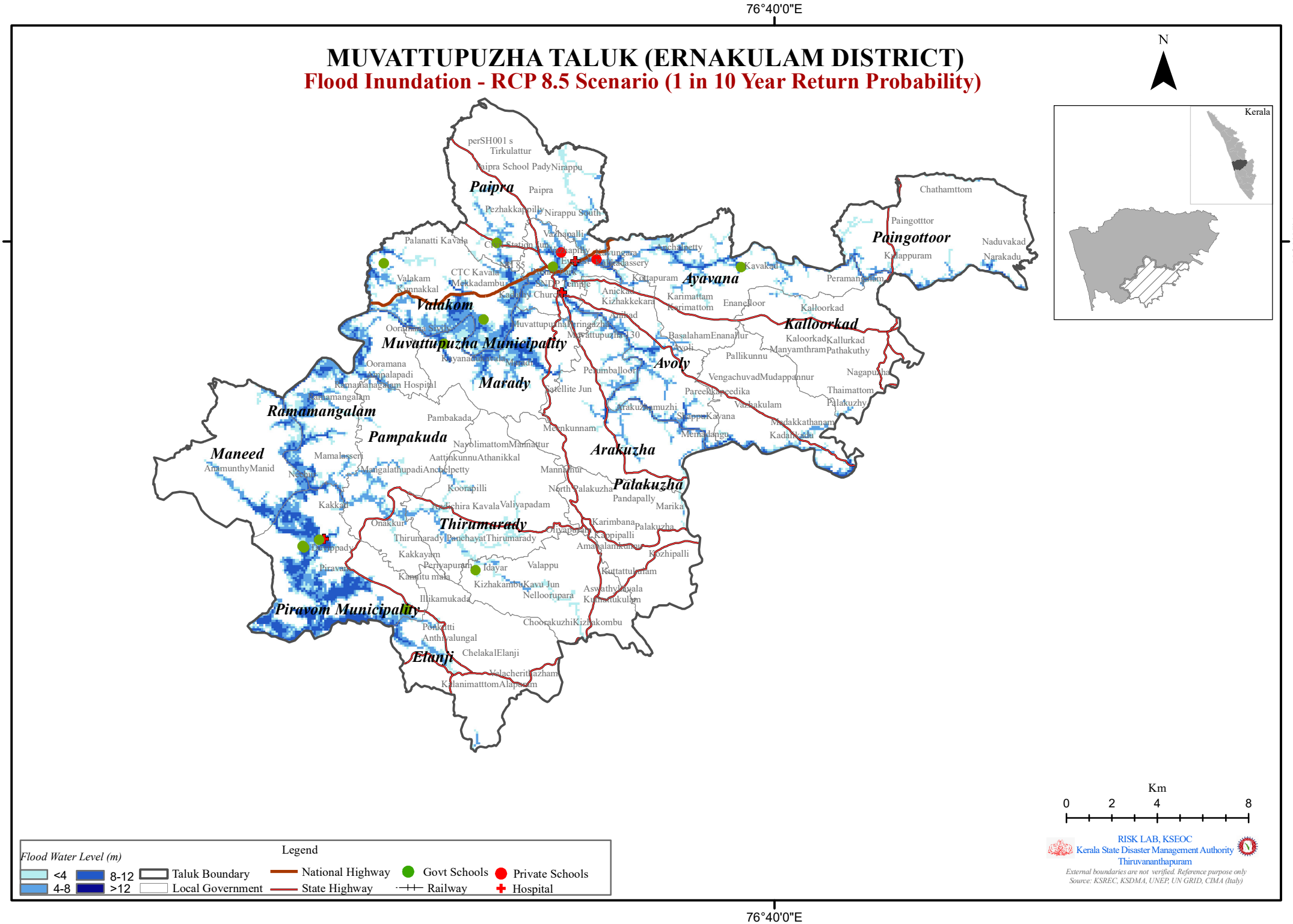
Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Aikaranad	2.72	11.22
2	Asamannoor	5.01	13.92
3	Kizhakkambalam	8.38	10.49
4	Koovappady	22.22	27.29
5	Kunnathunad	4.48	9.79
6	Mazhuvannoor	5.95	10.74
7	Mudakuzha	9.56	16.2
8	Okkal	11.04	16.39
9	Perumbavoor Municipality	6.60	17.07
10	Poothrikka	5.72	13.57
11	Rayamangalam	3.58	10.88
12	Thiruvaniyoor	2.30	4.96
13	Vadavucode Puthencruz	3.27	9.8
14	Vazhakulam	9.69	16.66
15	Vengola	7.10	15.4
16	Vengoor	27.62	54.71

ERNAKULAM DISTRICT					
KUNNATHUNAD TALUK					
Name of exposed Hospital/School (LSG)	Return Probability (Climate Change Scenari				
	1 in 10 Year	1 in 25 Year	1 in 50 Year	1 in 100 Year	1 i Ye
Asamannoor					
School					
G.U.P.S Panipra					
Kizhakkambalam					
Hospital					
CHC Malayidamthuruthu					
Koovappady					
School					
G.L.P.S Koovappady	✓	✓	✓	✓	
Govt. LPS Kodanad		✓	✓	✓	
Govt. LPS Kurichilakode					
Govt. UPS Aimury					
Mar Augen High School Kodanad		✓	✓	✓	
Mary Matha LPS Kaiuthial			✓	✓	
Kunnathunad					
School					
G.L.P.S Vempilly	✓	✓	✓	✓	
Okkal					
School					
Church UPS Cheranalloor		✓	✓	✓	
G.L.P.S Okkal			✓	✓	
Govt. LPS. Okkal				✓	
S N H S S Okkal				✓	
Perumbavoor Municipality					
Hospital					
Mount Cile Hospital Permbavoor					
Vathyath Hospital Perumbavoor			✓	✓	
School					
G.B.L.P.S Perumbavoor					
Govt. LPS Kanjirakkad					
St. Teresa`S LPS Vallam				✓	
Rayamangalam					
School					
Nirmala LPS Malamury					
Vazhakulam					
School					
Al Mubarak UPS Pallipuram		✓	✓	✓	
Govt. H. S. Mudickal				✓	
Govt. UPS North Vazhakulam					
Pothiyil LPS Palliprum					

Vengoor					
School					
Govt. LPS Mekkappala					
Govt. LPS Paniely	✓	✓	✓	✓	
Govt. LPS Vaniappilly	✓	✓	✓	✓	
Mar Thoma LPS Vengoor					

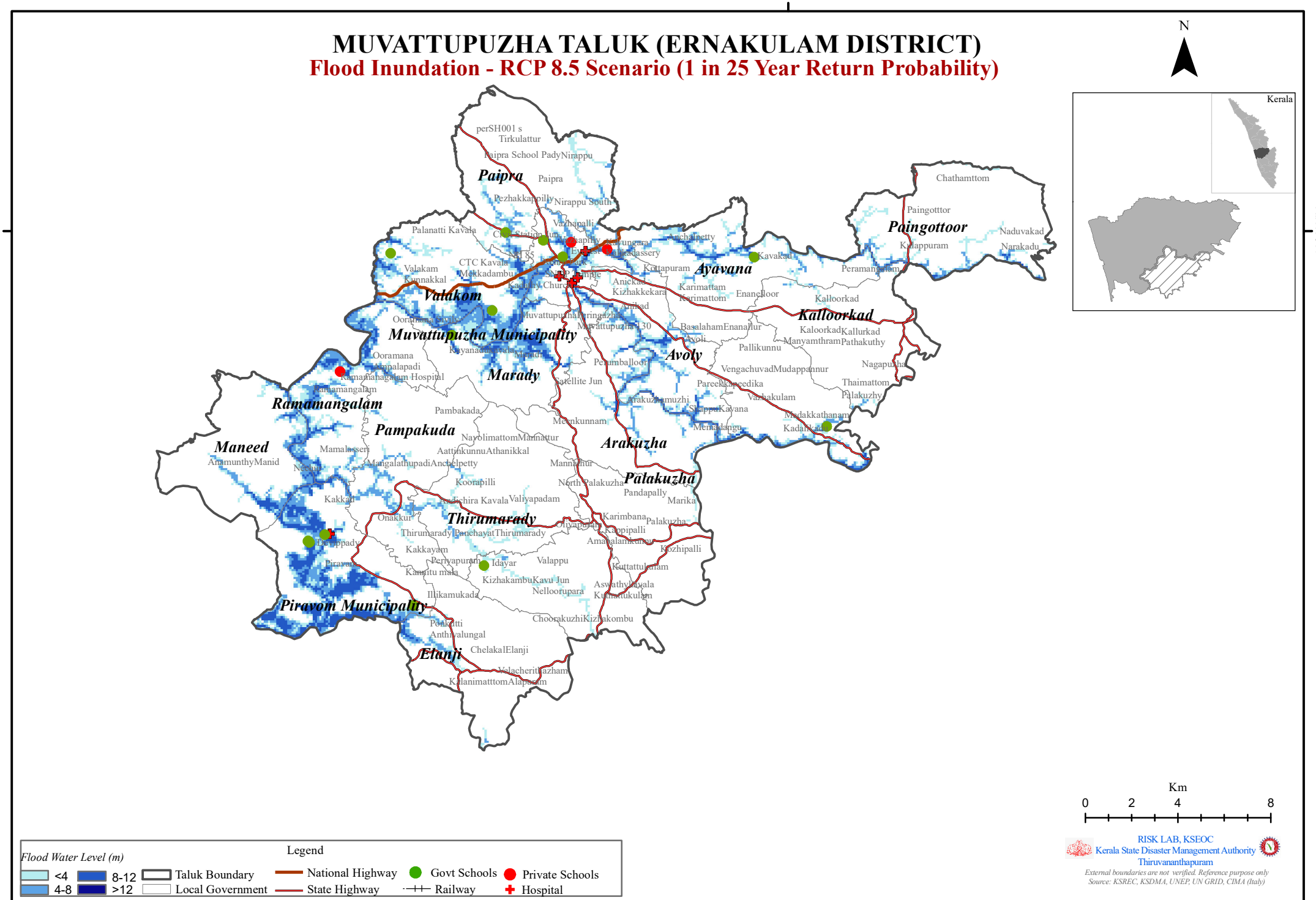
MUVATTUPUZHA TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 10 Year Return Probability)



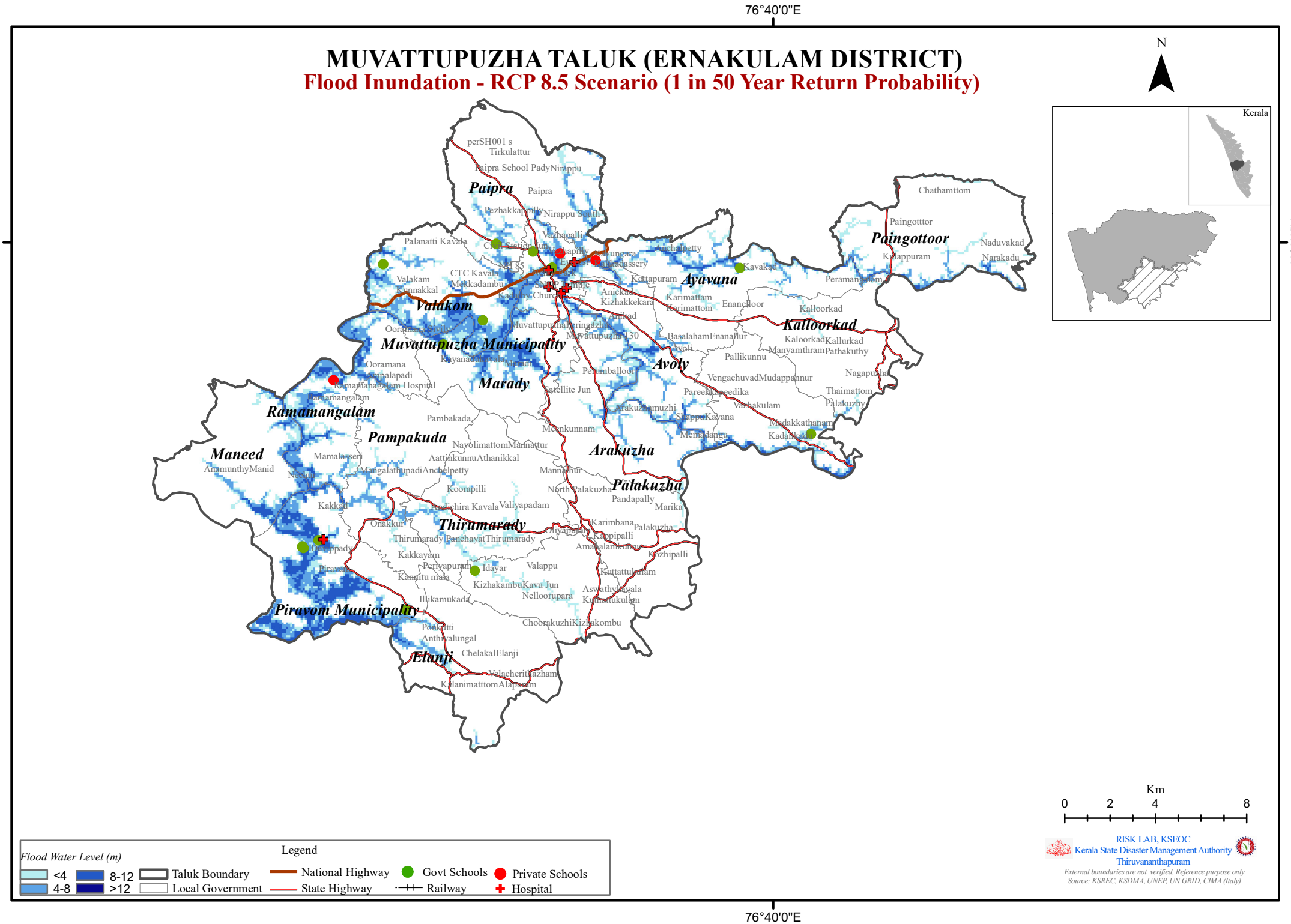
MUVATTUPUZHA TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 25 Year Return Probability)



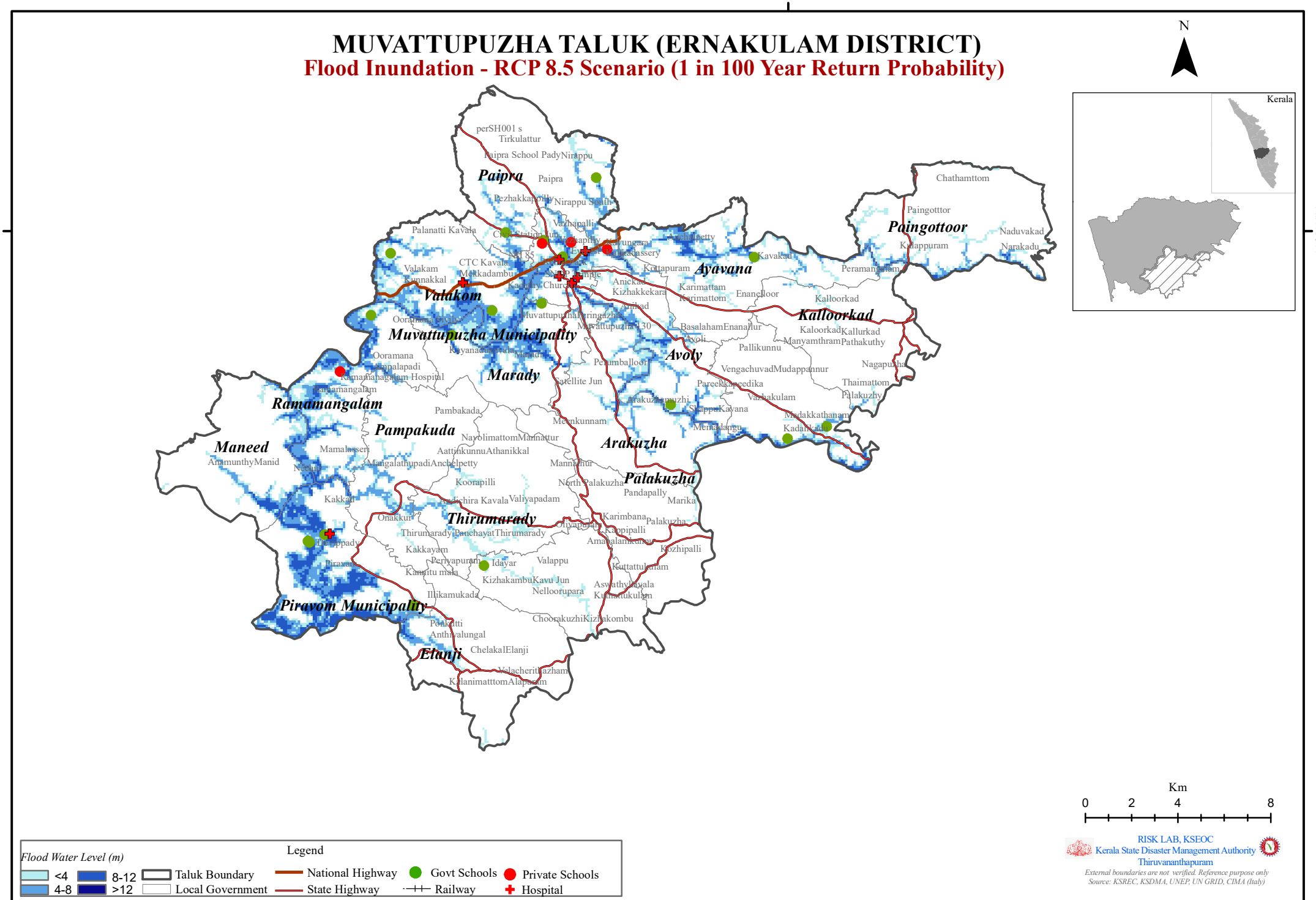
MUVATTUPUZHA TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 50 Year Return Probability)



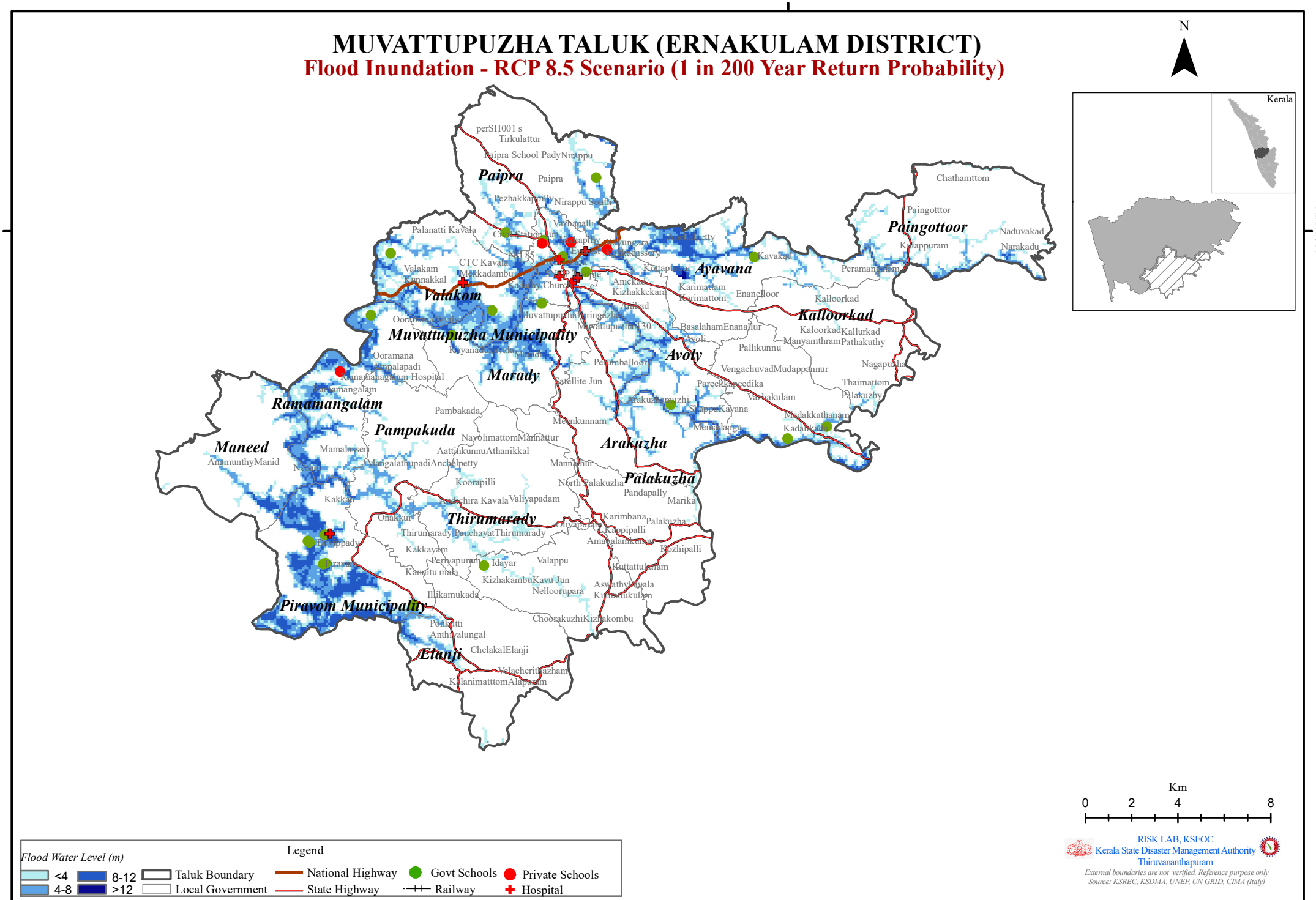
MUVATTUPUZHA TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 100 Year Return Probability)



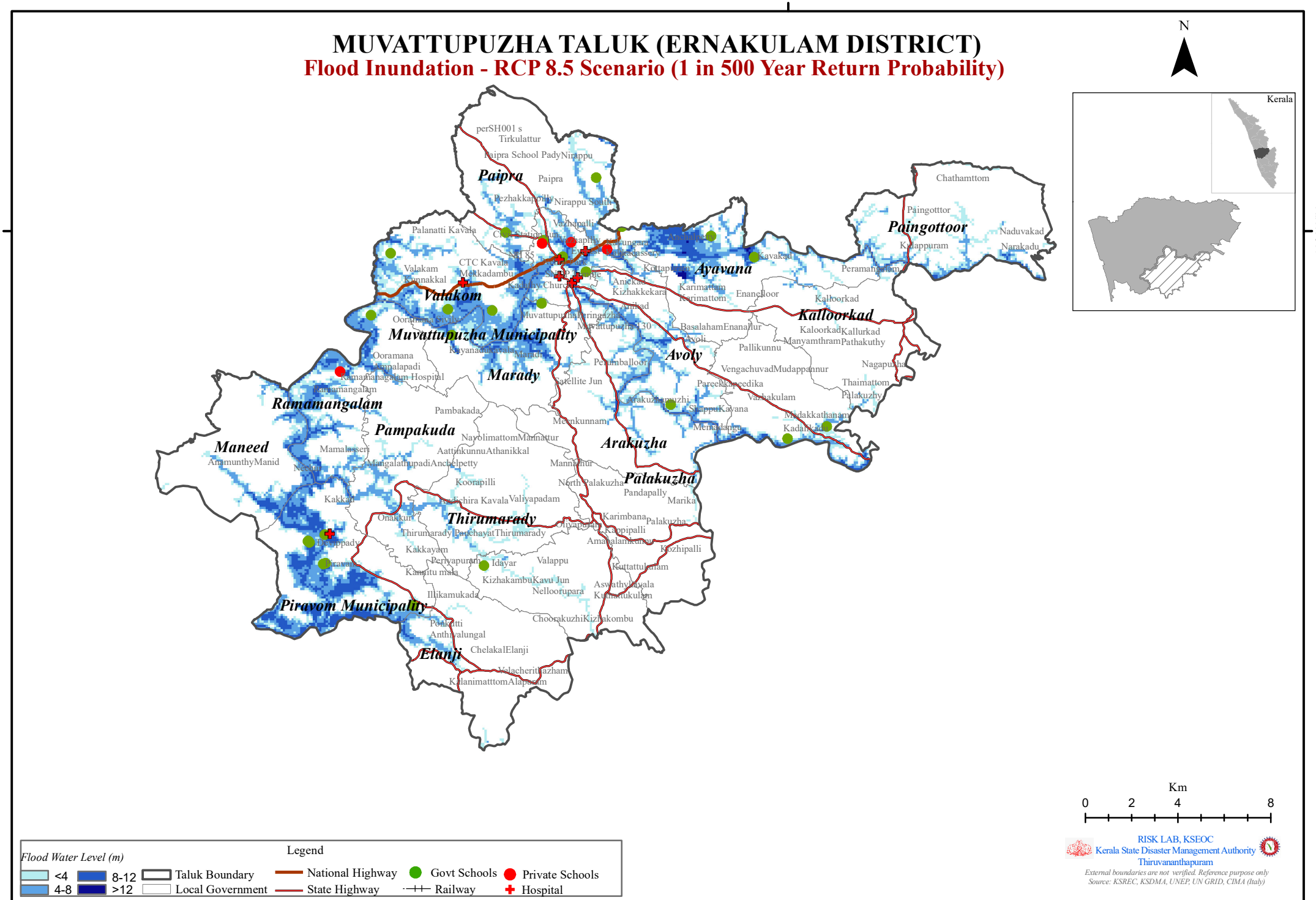
MUVATTUPUZHA TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 200 Year Return Probability)



MUVATTUPUZHA TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 500 Year Return Probability)



ERNAKULAM DISTRICT

MUVATTUPUZHA TALUK

1 in 10 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Arakuzha	3.53	10.65
2	Avoly	4.30	11.04
3	Ayavana	4.89	9.99
4	Elanji	1.50	10
5	Kalloorkad	0.60	8.73
6	Koothattukulam Municipality	1.02	3.67
7	Maneed	3.48	12.09
8	Manjalloor	2.07	11.04
9	Marady	5.56	10.14
10	Muvattupuzha Municipality	4.25	10
11	Paingottoor	2.22	9.99
12	Paipra	3.46	8.08
13	Palakuzha	0.12	2.72
14	Pampakuda	2.33	8.08
15	Piravom Municipality	13.78	12.39
16	Ramamangalam	7.90	10.86
17	Thirumarady	2.28	5.3
18	Valakom	8.97	10.14

1 in 25 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Arakuzha	3.93	11.28
2	Avoly	4.87	11.65
3	Ayavana	5.49	10.46
4	Elanji	1.59	10.4
5	Kalloorkad	0.69	9.21
6	Koothattukulam Municipality	1.02	3.74
7	Maneed	3.69	12.59
8	Manjalloor	2.36	11.65
9	Marady	6.09	10.74
10	Muvattupuzha Municipality	4.57	10.7
11	Paingottoor	2.88	10.1
12	Paipra	3.68	8.38
13	Palakuzha	0.14	2.83
14	Pampakuda	2.49	8.97
15	Piravom Municipality	14.19	12.89
16	Ramamangalam	8.57	11.76
17	Thirumarady	2.42	5.59
18	Valakom	9.91	10.74

1 in 50 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Arakuzha	4.44	12.04
2	Avoly	5.17	12.44
3	Ayavana	5.89	10.66
4	Elanji	1.70	10.9
5	Kalloorkad	0.87	9.67
6	Koothattukulam Municipality	1.11	3.82
7	Maneed	3.89	13.29
8	Manjalloor	2.54	12.44
9	Marady	6.26	10.97
10	Muvattupuzha Municipality	5.06	11.3
11	Paingottoor	3.20	10.7
12	Paipra	4.57	9.93
13	Palakuzha	0.14	2.84
14	Pampakuda	2.80	9.28
15	Piravom Municipality	14.68	13.59
16	Ramamangalam	9.15	12.06
17	Thirumarady	2.58	6.07
18	Valakom	10.70	11.19

1 in 100 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Arakuzha	4.74	12.36
2	Avoly	5.62	12.75
3	Ayavana	6.85	13.91
4	Elanji	1.75	11.3
5	Kalloorkad	0.97	10.07
6	Koothattukulam Municipality	1.12	3.89
7	Maneed	4.14	13.99
8	Manjalloor	2.73	12.75
9	Marady	6.35	11.07
10	Muvattupuzha Municipality	5.48	12
11	Paingottoor	3.58	11.48
12	Paipra	4.89	12.02
13	Palakuzha	0.14	2.85
14	Pampakuda	3.00	9.78
15	Piravom Municipality	15.13	14.29
16	Ramamangalam	9.72	12.56
17	Thirumarady	2.63	6.44
18	Valakom	11.20	11.88

1 in 200 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Arakuzha	4.97	12.94
2	Avoly	5.92	13.35
3	Ayavana	8.27	23.68
4	Elanji	1.88	11.7
5	Kalloorkad	1.08	10.56
6	Koothattukulam Municipality	1.15	3.99
7	Maneed	4.40	14.59
8	Manjalloor	2.94	13.35
9	Marady	6.37	11.51
10	Muvattupuzha Municipality	5.80	12.6
11	Paingottoor	3.90	12.44
12	Paipra	5.05	14.06
13	Palakuzha	0.14	2.94
14	Pampakuda	3.36	10.34
15	Piravom Municipality	15.49	14.89
16	Ramamangalam	10.13	13.15
17	Thirumarady	2.74	7
18	Valakom	11.72	12.48

1 in 500 YEAR (CC – RCP 8.5)

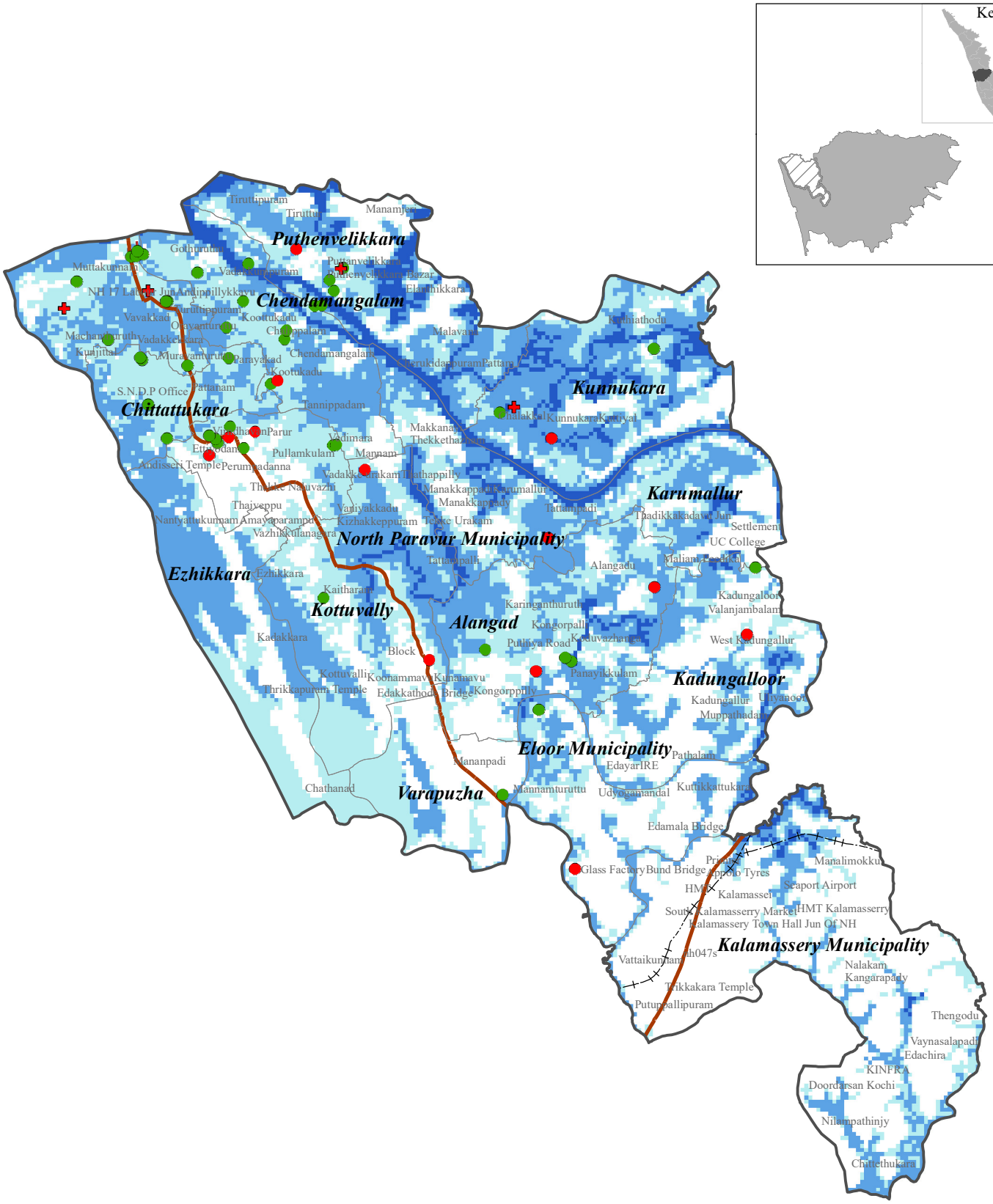
Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Arakuzha	5.27	13.51
2	Avoly	6.28	13.95
3	Ayavana	10.23	25.58
4	Elanji	2.10	12.2
5	Kalloorkad	1.18	11.42
6	Koothattukulam Municipality	1.16	4.06
7	Maneed	4.61	15.38
8	Manjalloor	3.19	13.95
9	Marady	6.52	12.19
10	Muvattupuzha Municipality	6.17	13.4
11	Paingottoor	4.77	13.33
12	Paipra	5.38	15.95
13	Palakuzha	0.15	2.95
14	Pampakuda	3.66	10.81
15	Piravom Municipality	16.03	15.69
16	Ramamangalam	10.47	13.64
17	Thirumarady	2.85	7.56
18	Valakom	11.98	13.28

ERNAKULAM DISTRICT						
MUVATTUPUZHA TALUK						
Name of exposed Hospital/School (LSG)	**Return Probability (Climate Change Scenario - RCP 8.5)**					
	1 in 10 Year	1 in 25 Year	1 in 50 Year	1 in 100 Year	1 in 200 Year	1 in 500 Year
Avoly						
School						
Govt. L P S Kavana				✓	✓	✓
Ayavana						
School						
Govt. L P S Kalampoor						✓
Sree Narayana U P S Ayavana	✓	✓	✓	✓	✓	✓
Koothattukulam Municipality						
School						
Jawahar U P S Edayar	✓	✓	✓	✓	✓	✓
Manjalloor						
School						
St. Andrew`S L P S Kadalikkad				✓	✓	✓
St. Paul`S L P S Madakkathanam		✓	✓	✓	✓	✓
Marady						
School						
Govt. L P S. Kayanad	✓	✓	✓	✓	✓	✓
Govt. U P S North Marady				✓	✓	✓
Muvattupuzha Municipality						
Hospital						
MCS Hospital Mvzpa	✓	✓	✓	✓	✓	✓
Moovatupuzha Co Operative Super Spclty Hospital	✓	✓	✓	✓	✓	✓
Nedumchalil Mvpza			✓	✓	✓	✓
Nirmala Medical Centre Mvzpa		✓	✓	✓	✓	✓
RK Hospital Muvattupuzha	✓	✓	✓	✓	✓	✓
Vallakkalil Hospital Muvattupuzha		✓	✓	✓	✓	✓
School						
G.J.B.S Vazhappilly	✓	✓	✓	✓	✓	✓

Govt. East H S Muvattupuzha					✓	✓
Govt. J B S Vazhappilly		✓	✓	✓	✓	✓
Govt. Town U Ps Muvattupuzha	✓	✓	✓	✓	✓	✓
Paipra						
School						
G.J.B.S Vazhappilly	✓	✓	✓	✓	✓	✓
Govt. LPS Venduvazhy				✓	✓	✓
Milady SHerif Memorial LPS Mulavoor	✓	✓	✓	✓	✓	✓
Piravom Municipality						
Hospital						
JMP Piravam Hospital	✓	✓	✓	✓	✓	✓
School						
Govt. H S S Namakuzhi	✓	✓	✓	✓	✓	✓
Govt. H S S Piravom					✓	✓
Govt. L P S Pazhoor	✓	✓	✓	✓	✓	✓
Govt. L P S Piravom					✓	✓
Govt. U P S Kakkad	✓	✓	✓	✓	✓	✓
Govt. U P S Kalampoor	✓	✓	✓	✓	✓	✓
Govt.Technical Hs Elanji	✓	✓	✓	✓	✓	✓
Ramamangalam						
School						
G.L.P.S Maneed		✓	✓	✓	✓	✓
Govt. H S Ooramana				✓	✓	✓
Valakom						
Hospital						
PHC Valakam (24X7)				✓	✓	✓
School						
Govt. L P S Kunnackal West	✓	✓	✓	✓	✓	✓
Govt. L P S Mekkadampu						✓
Govt. U P S Rackad	✓	✓	✓	✓	✓	✓

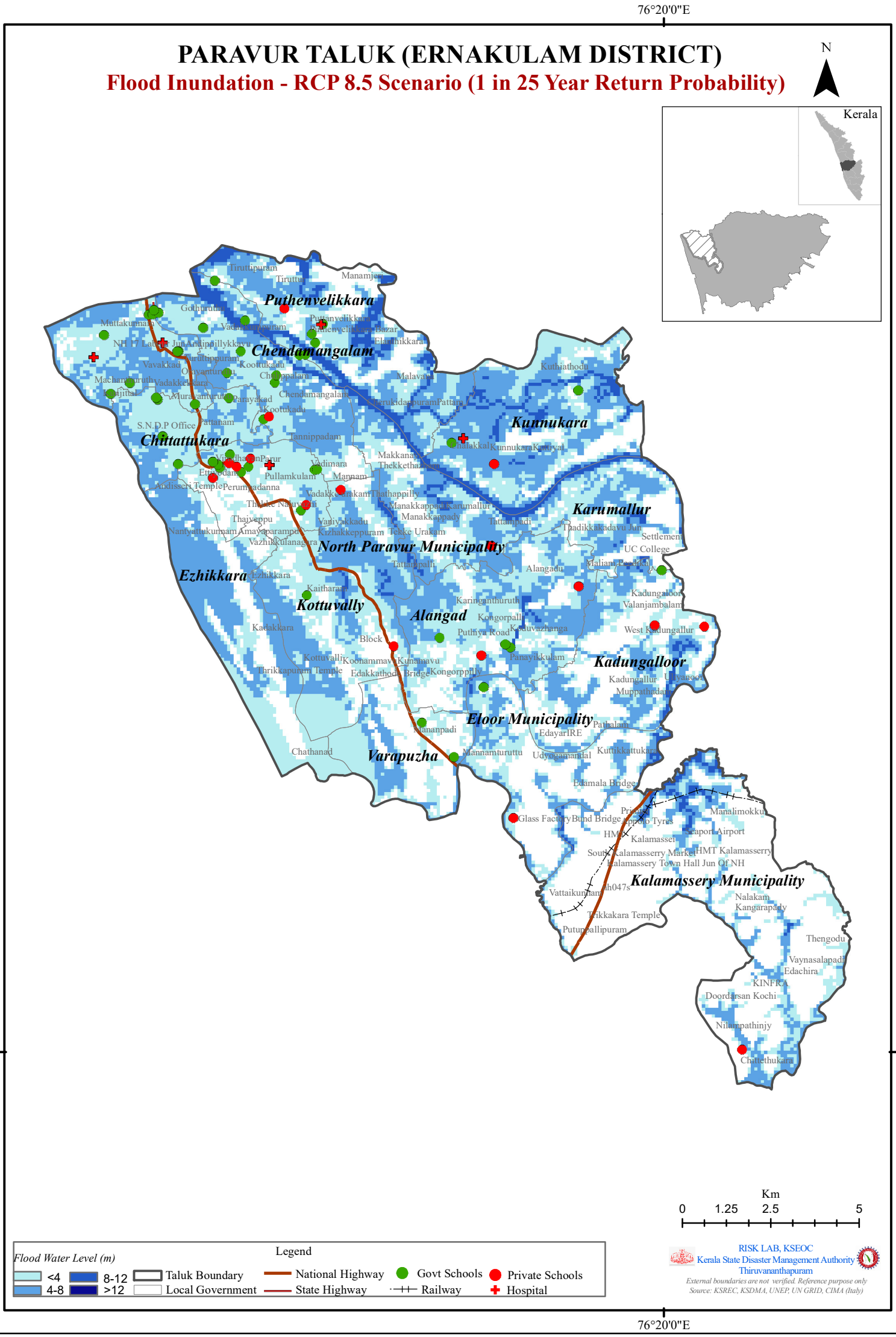
PARAVUR TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 10 Year Return Probability)



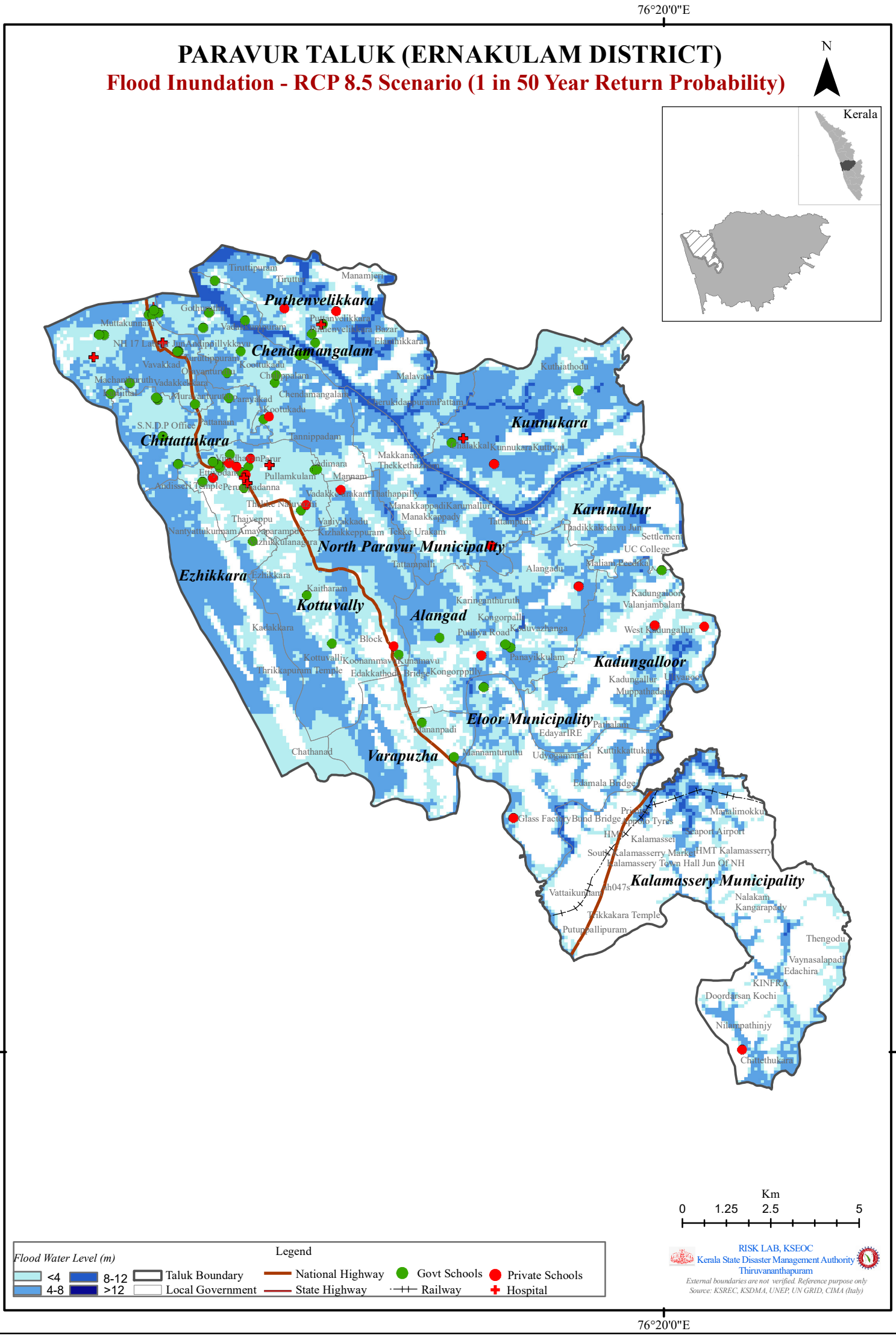
PARAVUR TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 25 Year Return Probability)



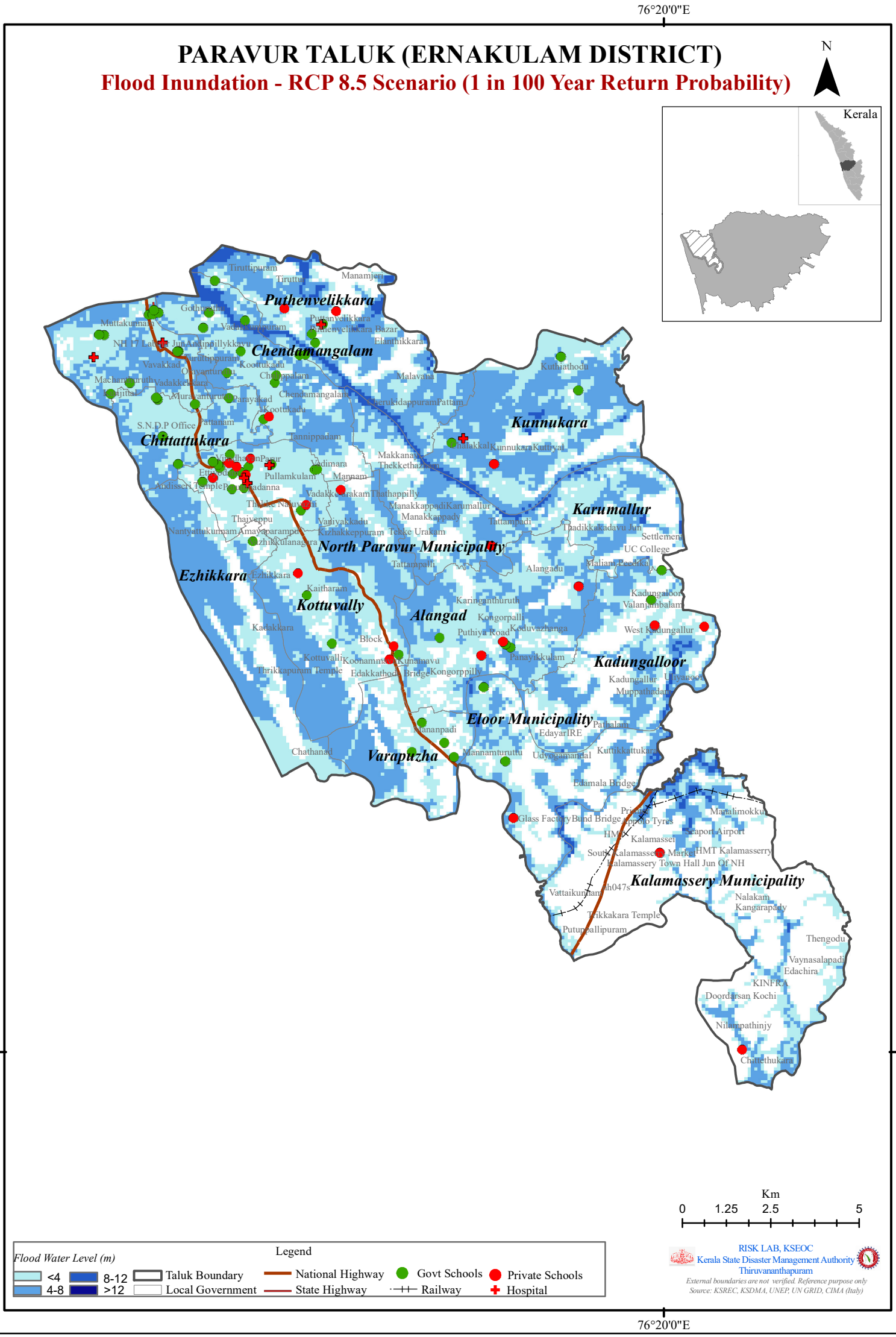
PARAVUR TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 50 Year Return Probability)



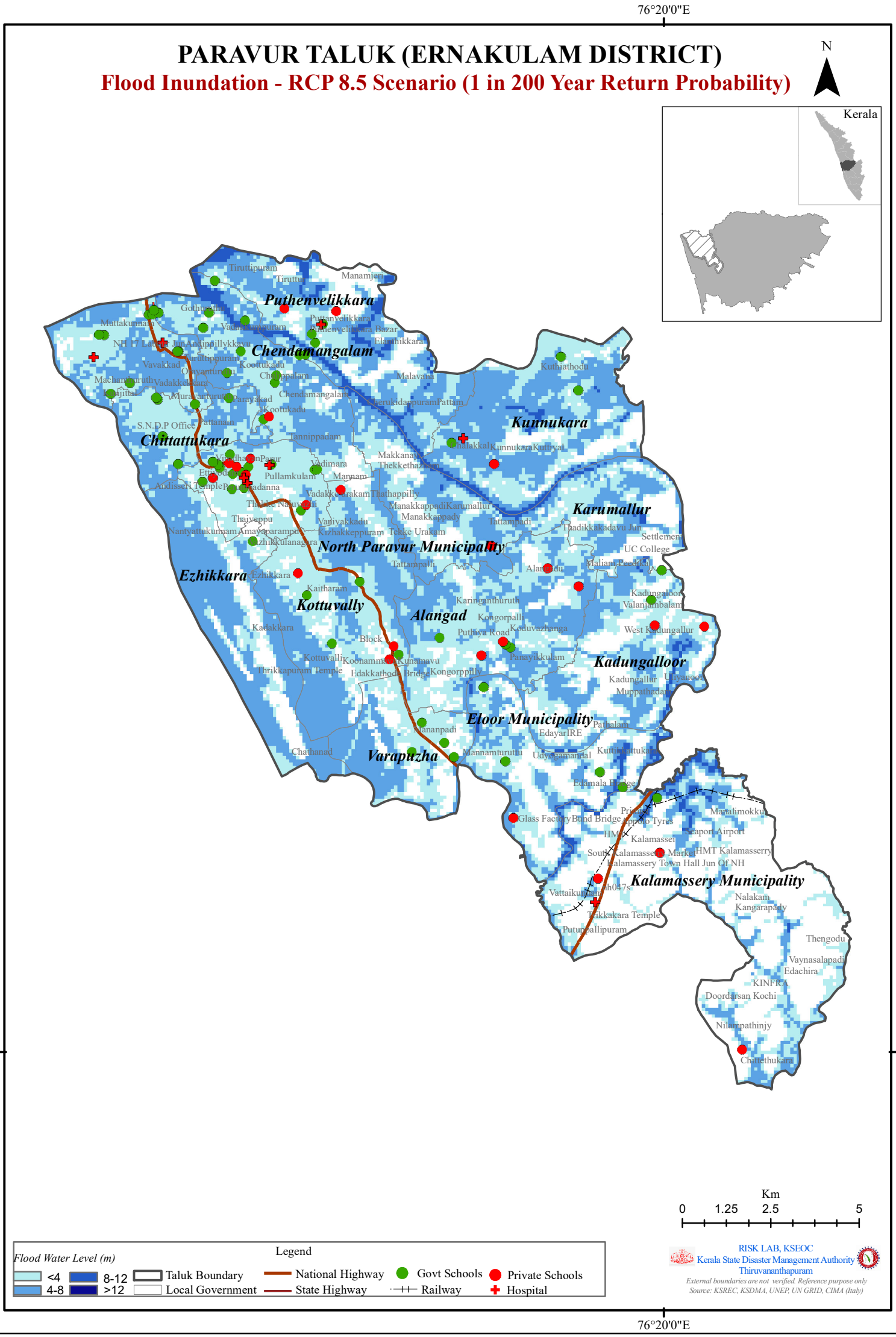
PARAVUR TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 100 Year Return Probability)



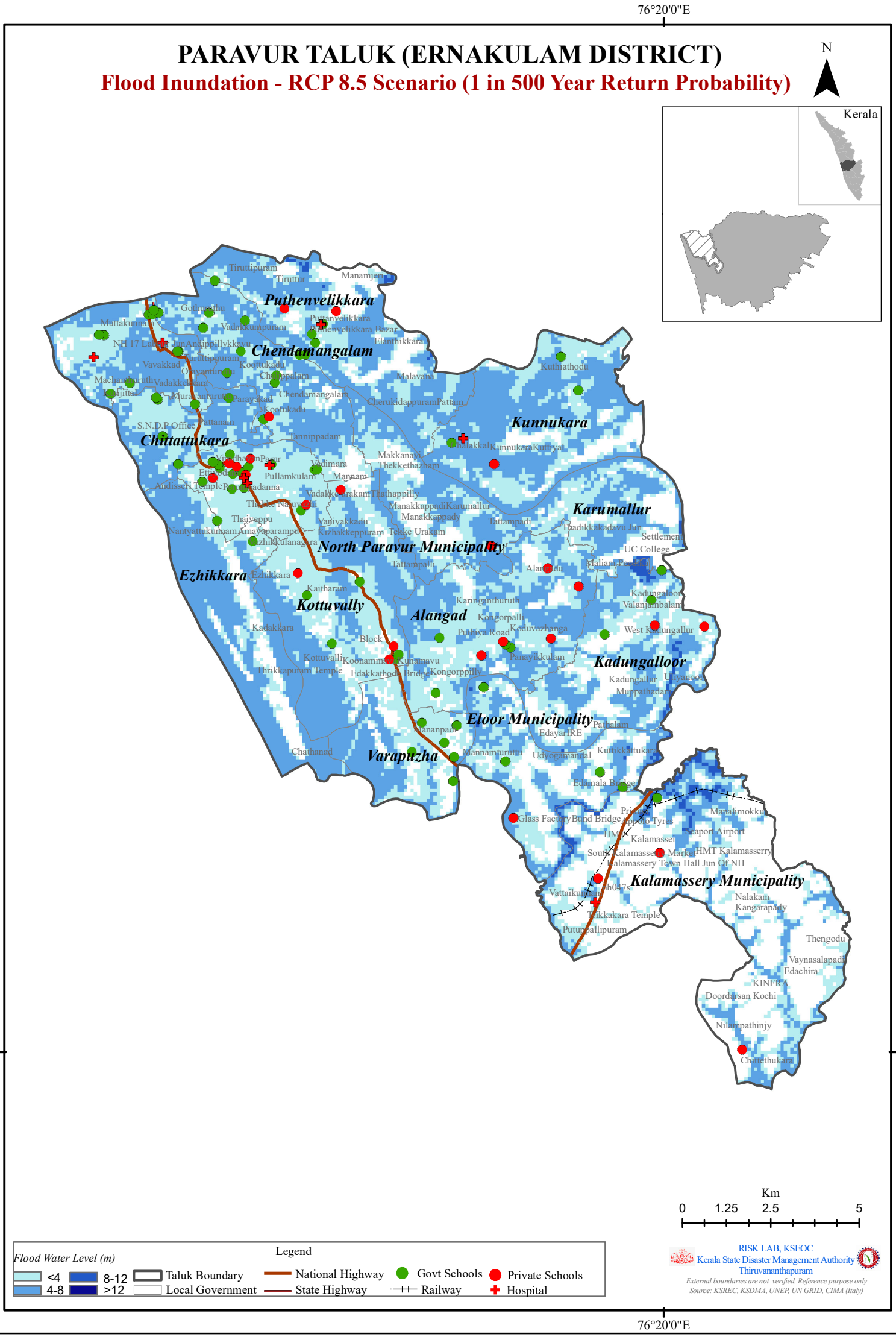
PARAVUR TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 200 Year Return Probability)



PARAVUR TALUK (ERNAKULAM DISTRICT)

Flood Inundation - RCP 8.5 Scenario (1 in 500 Year Return Probability)



ERNAKULAM DISTRICT

PARAVUR TALUK

1 in 10 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Alangad	14.24	7.95
2	Chendamangalam	11.70	8.16
3	Chittattukara	7.50	6.73
4	Eloor Municipality	5.68	7.98
5	Ezhikkara	11.45	6.18
6	Kadungalloor	8.86	8.2
7	Kalamassery Municipality	9.84	8.39
8	Karumallur	14.92	8.47
9	Kottuvally	15.81	7.81
10	Kunnukara	16.67	8.55
11	North Paravur Municipality	4.48	5.46
12	Puthenvelikkara	13.99	8.82
13	Vadakkekkara	8.82	7.44
14	Varapuzha	4.07	6.29

1 in 25 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Alangad	15.02	8.05
2	Chendamangalam	11.83	8.16
3	Chittattukara	7.55	7.12
4	Eloor Municipality	6.48	8.78
5	Ezhikkara	11.94	6.73
6	Kadungalloor	9.87	9.01
7	Kalamassery Municipality	10.69	8.63
8	Karumallur	15.01	9.16
9	Kottuvally	16.66	7.87
10	Kunnukara	16.69	8.56
11	North Paravur Municipality	5.58	5.56
12	Puthenvelikkara	14.22	8.82
13	Vadakkekkara	9.14	7.93
14	Varapuzha	5.17	8.01

1 in 50 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Alangad	15.37	8.24
2	Chendamangalam	11.91	8.32
3	Chittattukara	7.57	7.32
4	Eloor Municipality	7.03	9.14
5	Ezhikkara	12.19	7.09
6	Kadungalloor	10.41	9.38
7	Kalamassery Municipality	11.49	9.1
8	Karumallur	15.06	9.33
9	Kottuvally	17.14	7.89
10	Kunnukara	16.72	8.58
11	North Paravur Municipality	6.39	5.58
12	Puthenvelikkara	14.40	8.86
13	Vadakkekkara	9.22	8.23
14	Varapuzha	6.01	8.11

1 in 100 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Alangad	16.05	8.46
2	Chendamangalam	12.02	8.63
3	Chittattukara	7.58	7.57
4	Eloor Municipality	7.85	10.12
5	Ezhikkara	12.67	7.35
6	Kadungalloor	11.17	9.56
7	Kalamassery Municipality	11.99	10.12
8	Karumallur	15.32	9.61
9	Kottuvally	17.66	7.96
10	Kunnukara	16.99	8.63
11	North Paravur Municipality	7.17	5.69
12	Puthenvelikkara	14.61	9.09
13	Vadakkekkara	9.25	8.52
14	Varapuzha	6.70	8.21

1 in 200 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Alangad	16.51	8.65
2	Chendamangalam	12.07	8.83
3	Chittattukara	7.58	7.69
4	Eloor Municipality	8.77	12.89
5	Ezhikkara	12.87	7.49
6	Kadungalloor	12.04	9.78
7	Kalamassery Municipality	13.62	12.89
8	Karumallur	15.67	9.81
9	Kottuvally	18.02	8.03
10	Kunnukara	17.18	8.74
11	North Paravur Municipality	7.40	5.78
12	Puthenvelikkara	14.74	9.24
13	Vadakkekkara	9.27	8.72
14	Varapuzha	7.35	8.37

1 in 500 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Alangad	17.08	9.03
2	Chendamangalam	12.19	9.13
3	Chittattukara	7.58	7.92
4	Eloor Municipality	9.39	13.15
5	Ezhikkara	13.26	7.76
6	Kadungalloor	12.88	15.71
7	Kalamassery Municipality	15.22	13.15
8	Karumallur	15.99	14.46
9	Kottuvally	18.27	8.08
10	Kunnukara	17.41	9.1
11	North Paravur Municipality	8.00	6.02
12	Puthenvelikkara	14.91	9.47
13	Vadakkekkara	9.28	9.01
14	Varapuzha	7.77	8.83

ERNAKULAM DISTRICT						
PARAVUR TALUK						
Name of exposed Hospital/School (LSG)	**Return Probability (Climate Change Scenario - RCP 8.5)**					
	1 in 10 Year	1 in 25 Year	1 in 50 Year	1 in 100 Year	1 in 200 Year	1 in 500 Year
Alangad						
School						
G.L.P.S Panaikulam	✓	✓	✓	✓	✓	✓
Govt. H. S. S. Kongorpilly	✓	✓	✓	✓	✓	✓
Govt. L. P. S. Panaikulam	✓	✓	✓	✓	✓	✓
Little Flower H. S. Panaikulam	✓	✓	✓	✓	✓	✓
Little Flower L. P. S. Olanad						✓
Chendamangalam						
School						
D. D. Sabha H. S. Karimpadam	✓	✓	✓	✓	✓	✓
D. P. S. L. P. S. Pazhampillythuruth	✓	✓	✓	✓	✓	✓
G. L. P. S. Chendamangalam	✓	✓	✓	✓	✓	✓
G.L.P.S Chendamangalam	✓	✓	✓	✓	✓	✓
Govt. U. P. S. Chendamangalam	✓	✓	✓	✓	✓	✓
Holy Cross L. P. S. Katalvathuruth	✓	✓	✓	✓	✓	✓
Little Flower L. P. S. Thekkethuruth	✓	✓	✓	✓	✓	✓
Our Lady Of Mercy School. Kurumbathuruth	✓	✓	✓	✓	✓	✓
Paliyam Govt. H. S. S. Chendamangalam	✓	✓	✓	✓	✓	✓
Santacruz L. P. S. Koottukad	✓	✓	✓	✓	✓	✓
St. Joseph`S H. S. Chathedom		✓	✓	✓	✓	✓
St. Sebastian`S L. P. S. Gothuruth			✓	✓	✓	✓
Chittattukara						
School						
G. L. P. S. Chittattukara	✓	✓	✓	✓	✓	✓
Govt. H. S.S . Puthiyakavu	✓	✓	✓	✓	✓	✓
Govt. L. P. S. Parayakad	✓	✓	✓	✓	✓	✓
Govt. L. P. S. Pattanam	✓	✓	✓	✓	✓	✓
Govt. L. P. S. Puthiyakavu	✓	✓	✓	✓	✓	✓
Eloor Municipality						
School						
G.U.P.S Kuttikkattukara	✓	✓	✓	✓	✓	✓
Govt. L. P. S. Eloor				✓	✓	✓

Govt. U. P. S. Kuttikkattukara					✓	✓
M. E. S. Eastern U. P. S. Eloor					✓	✓
Sacred Heart Of Jesus U. P. S. Eloor	✓	✓	✓	✓	✓	✓
Ezhikkara						
School						
Govt. L. P. S. Kedamangalam						✓
Govt. L. P. S. Nanthiattukunnam			✓	✓	✓	✓
Kadungalloor						
School						
G.L.P.S East Kadungalloor	✓	✓	✓	✓	✓	✓
Govt. H. S. West Kadungallur						✓
Govt. L. P. S. East Kadungalloor				✓	✓	✓
Govt. L. P. S. North Kadungalloor	✓	✓	✓	✓	✓	✓
Kalamassery Municipality						
Hospital						
Kinder Hospital					✓	✓
School						
G.L.P.S Thrikkakkara				✓	✓	✓
G.U.P.S Kakkanad		✓	✓	✓	✓	✓
N. A. D. L. P. S. Aluva					✓	✓
Karumallur						
School						
G.L.P.S North Kadungalloor	✓	✓	✓	✓	✓	✓
Kottuvally						
School						
G.T.Ml.P.S N.Parur	✓	✓	✓	✓	✓	✓
G.U.P.S Kottuvally	✓	✓	✓	✓	✓	✓
Govt. U. P. S. Valluvally					✓	✓
Govt. V. H. S. S. Kaitharam	✓	✓	✓	✓	✓	✓
St. Louis L. P. S. Kottuvally			✓	✓	✓	✓
St. Philomina`S H. S. S. Koonammavu						✓
St. Philomina`S L. P. S. Koonammavu			✓	✓	✓	✓
Kunnukara						
Hospital						
SNIMS Chalakka	✓	✓	✓	✓	✓	✓
School						
G. L. P. S. Chalaka	✓	✓	✓	✓	✓	✓
G.J.B.S Kunnukara	✓	✓	✓	✓	✓	✓
St. Joseph`S Govt. L. P. S. Ayroor	✓	✓	✓	✓	✓	✓

St. Thomas H. S. Ayroor				✓	✓	✓
North Paravur Municipality						
Hospital						
Don Bosco Hospital Paravoor			✓	✓	✓	✓
KMK Hospital			✓	✓	✓	✓
Thaqdees Hospital		✓	✓	✓	✓	✓
THQH North paravoor		✓	✓	✓	✓	✓
School						
G. M. L. P. S. Kaithakkara	✓	✓	✓	✓	✓	✓
G.T.Ml.P.S N.Parur	✓	✓	✓	✓	✓	✓
G.U.P.S Kizhakkepram	✓	✓	✓	✓	✓	✓
Govt. Girls H. S. S. North Paravoor				✓	✓	✓
Govt. H. S. S. North Paravoor	✓	✓	✓	✓	✓	✓
Govt. K. V. L. P. S. North Paravoor	✓	✓	✓	✓	✓	✓
Govt. L. P. B. S. North Paravoor	✓	✓	✓	✓	✓	✓
Govt. L. P. G. S. North Paravoor		✓	✓	✓	✓	✓
Govt. L. P. S. Perumpadanna			✓	✓	✓	✓
Govt. Town Model L. P. S. North Paravoor			✓	✓	✓	✓
Govt. U. P. S. Kizhakkepram		✓	✓	✓	✓	✓
Samooham. H. S. North Paravoor				✓	✓	✓
St. Alosius H. S. North Paravoor	✓	✓	✓	✓	✓	✓
St. Aloysius L. P. S. North Paravoor	✓	✓	✓	✓	✓	✓
St. Germain`S Zion L. P. S. North Paravoor				✓	✓	✓
St. Paul`S L. P. S. North Paravoor	✓	✓	✓	✓	✓	✓
Puthenvelikkara						
Hospital						
TH Puthenvelikkara, Ekm	✓	✓	✓	✓	✓	✓
School						
Infant Jesus L. P. S. Puthenveli	✓	✓	✓	✓	✓	✓
P. S. M. Govt. L. P. S. Puthenvelikkara	✓	✓	✓	✓	✓	✓
P.S.M G.L.P.S Puthenvelikkara	✓	✓	✓	✓	✓	✓
St. Mary`S L. P. S. Chendamangalam	✓	✓	✓	✓	✓	✓
V. C. S. H. S. S. Puthenvelikkara	✓	✓	✓	✓	✓	✓

Vadakkekkara						
Hospital						
Bharat Rural Hospital , Moothakunnam	✓	✓	✓	✓	✓	✓
CHC Moothakunnam	✓	✓	✓	✓	✓	✓
School						
Govt. L. P. B. S. Moothakunnam	✓	✓	✓	✓	✓	✓
Govt. L. P. G. S. Moothakunnam	✓	✓	✓	✓	✓	✓
Govt. L. P. S. Vavakkad	✓	✓	✓	✓	✓	✓
Govt. Mohammeden L. P. S. Vadakkekara	✓	✓	✓	✓	✓	✓
Govt. S. N. M. L. P. S. Kottuvallikad	✓	✓	✓	✓	✓	✓
Govt. S. N. V. L. P. S. Thuruthipuram	✓	✓	✓	✓	✓	✓
H. M. Y. S. H. S. S. Kottuvallikadu			✓	✓	✓	✓
S. N. M. H. S. S. Moothakunnam	✓	✓	✓	✓	✓	✓
Sree Narayana L. P. S. Kunjithai		✓	✓	✓	✓	✓
St. Peter`S U. P. S. Vadakkekara	✓	✓	✓	✓	✓	✓
Varapuzha						
School						
Govt. U. P. S. Chirakkakam				✓	✓	✓
Holy Infant`S Boys H. S. Varapuzha						✓
St. George H. S. Puthenpally		✓	✓	✓	✓	✓
St. Joseph`S L. P. S. Mannanthuruth	✓	✓	✓	✓	✓	✓
St. Joseph`S L. P. S. Varapuzha				✓	✓	✓
St. Mary`S L. P. S. Muttinakkam						✓