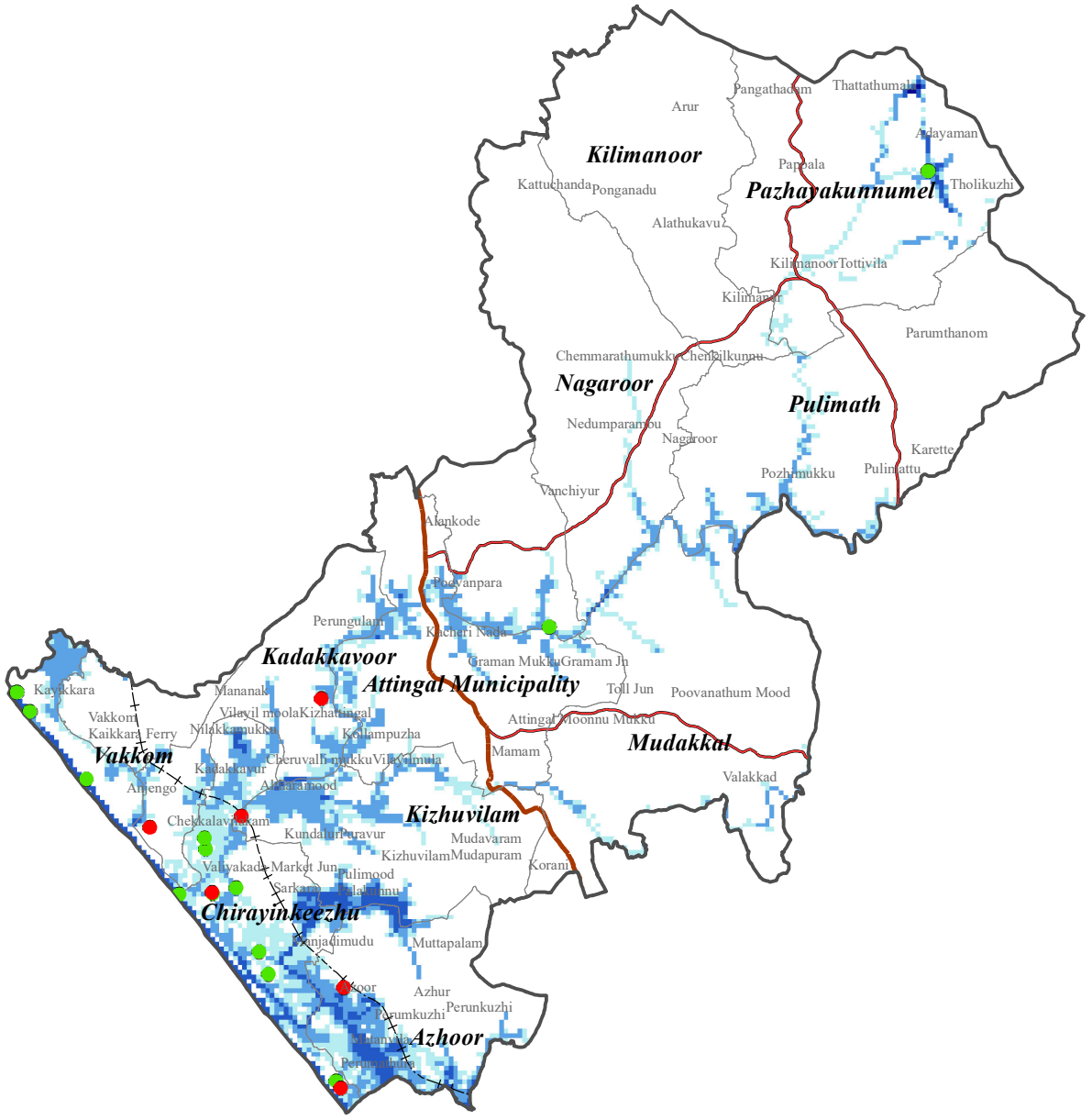
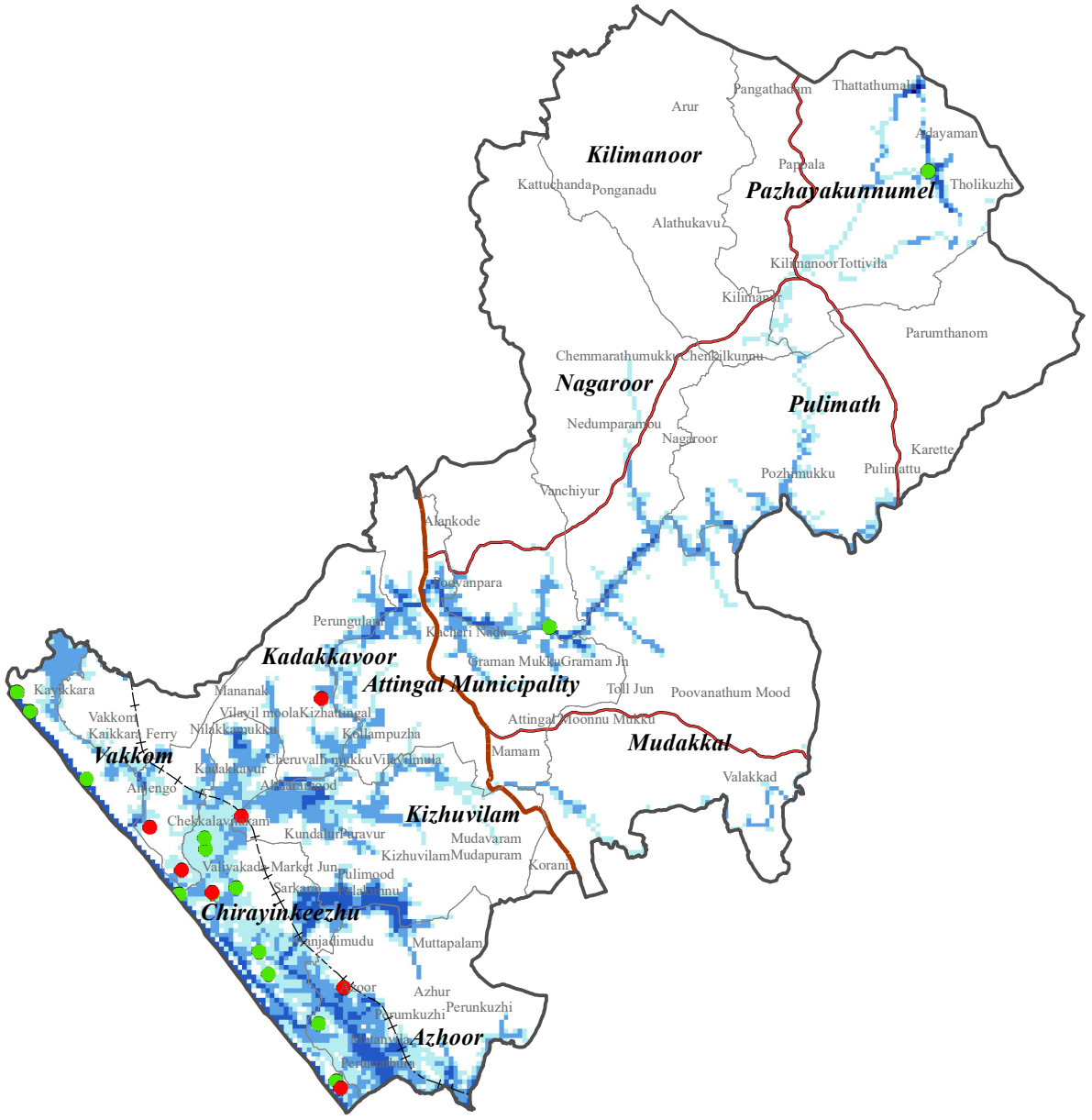
CHIRAYINKEEZHU TALUK (THIRUVANANTHAPURAM DISTRICT)

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



CHIRAYINKEEZHU TALUK (THIRUVANANTHAPURAM DISTRICT)

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



Legend

Flood Water Level (m)

<4 | 4-8 | 8-12 | >12

Taluk Boundary | Local Government

National Highway | State Highway | Railway

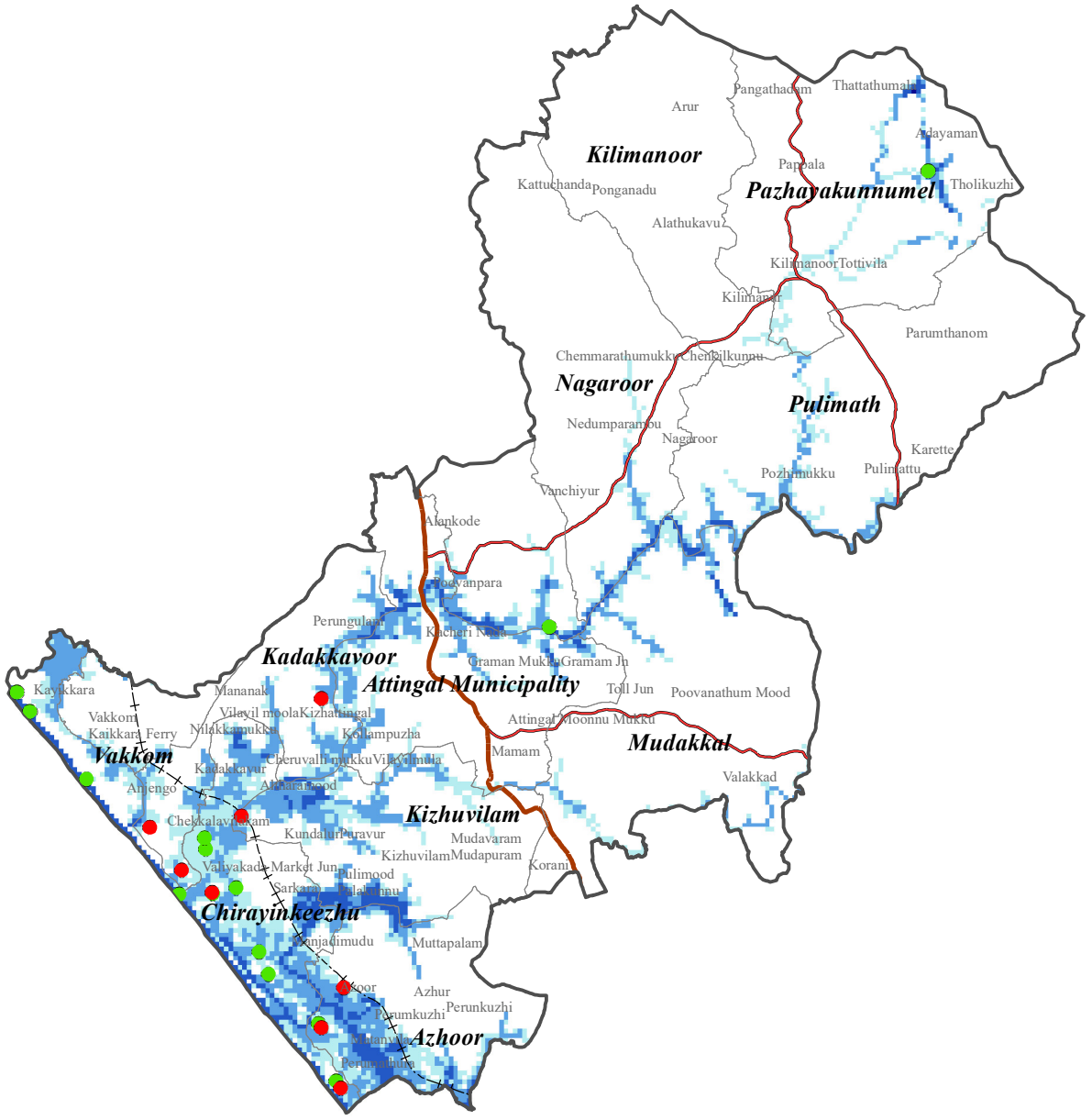
Govt Schools | Private Schools | Hospital

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)

CHIRAYINKEEZHU TALUK (THIRUVANANTHAPURAM DISTRICT)

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



Legend

Flood Water Level (m)

<4 | 4-8 | 8-12 | >12

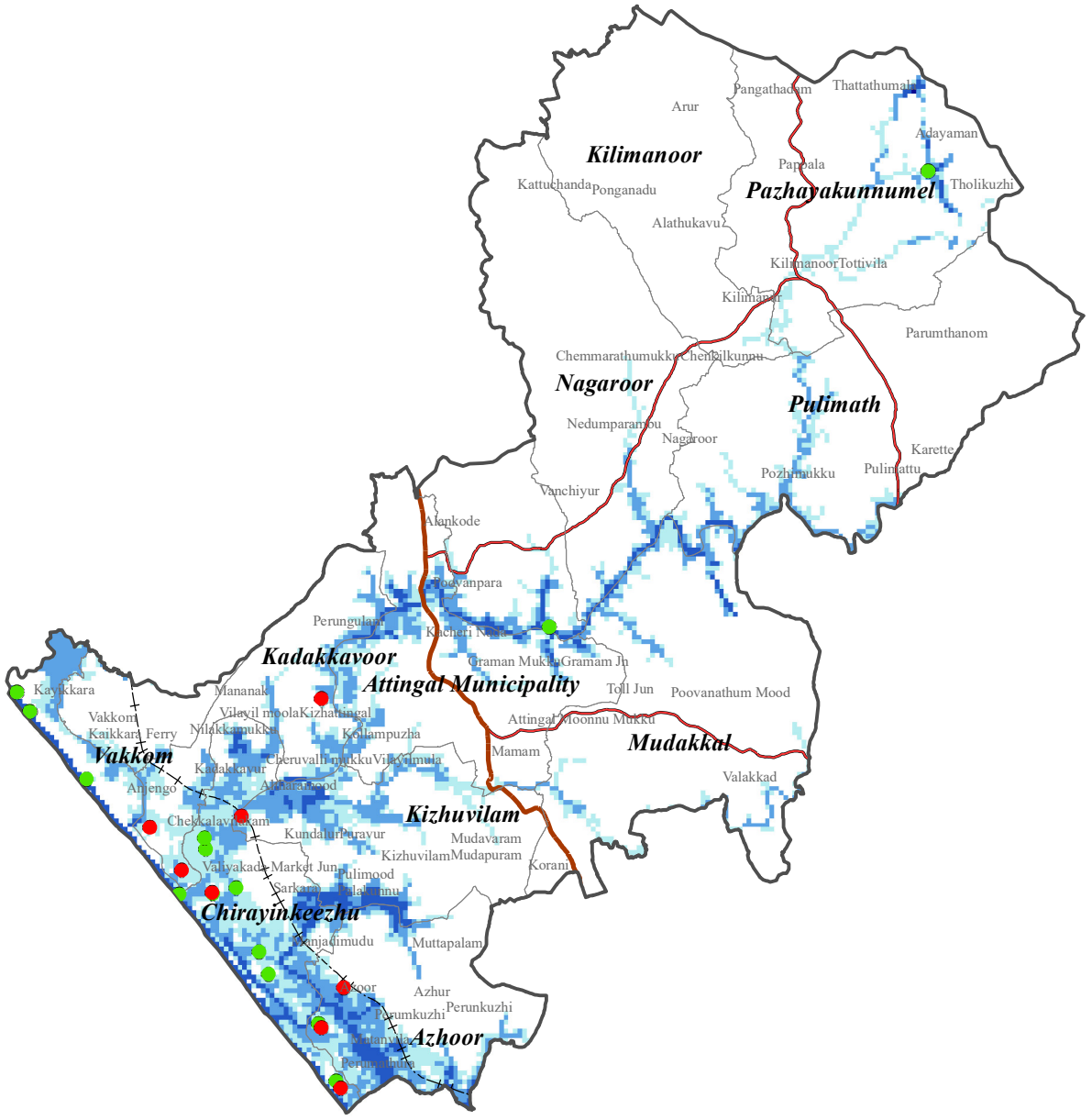
Taluk Boundary | Local Government | National Highway | State Highway | Railway | Govt Schools | Private Schools | Hospital

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)

CHIRAYINKEEZHU TALUK (THIRUVANANTHAPURAM DISTRICT)

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



Legend

Flood Water Level (m)

<4 | 4-8 | 8-12 | >12

Taluk Boundary | Local Government

National Highway | State Highway | Railway

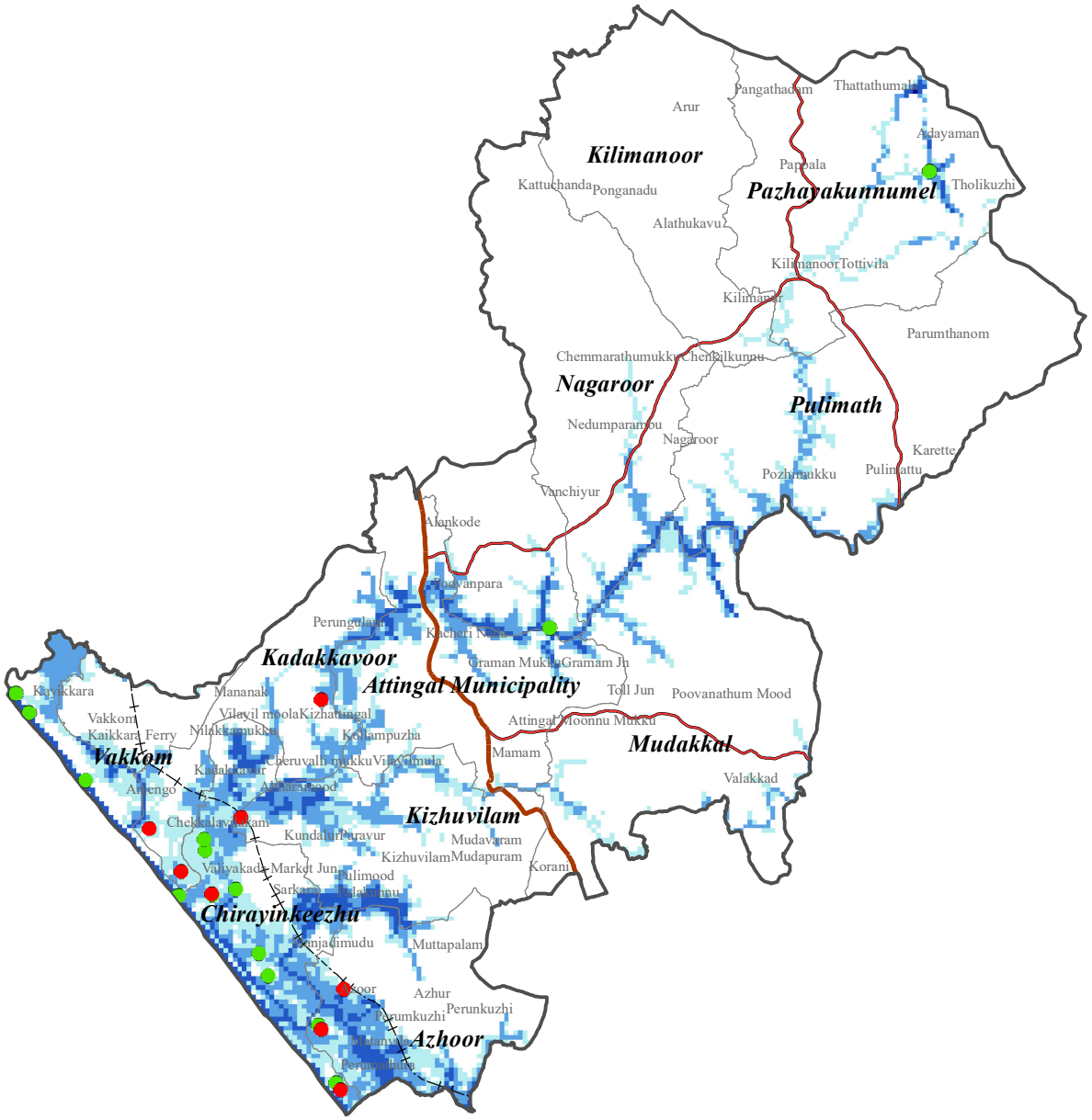
Govt Schools | Private Schools | Hospital

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)

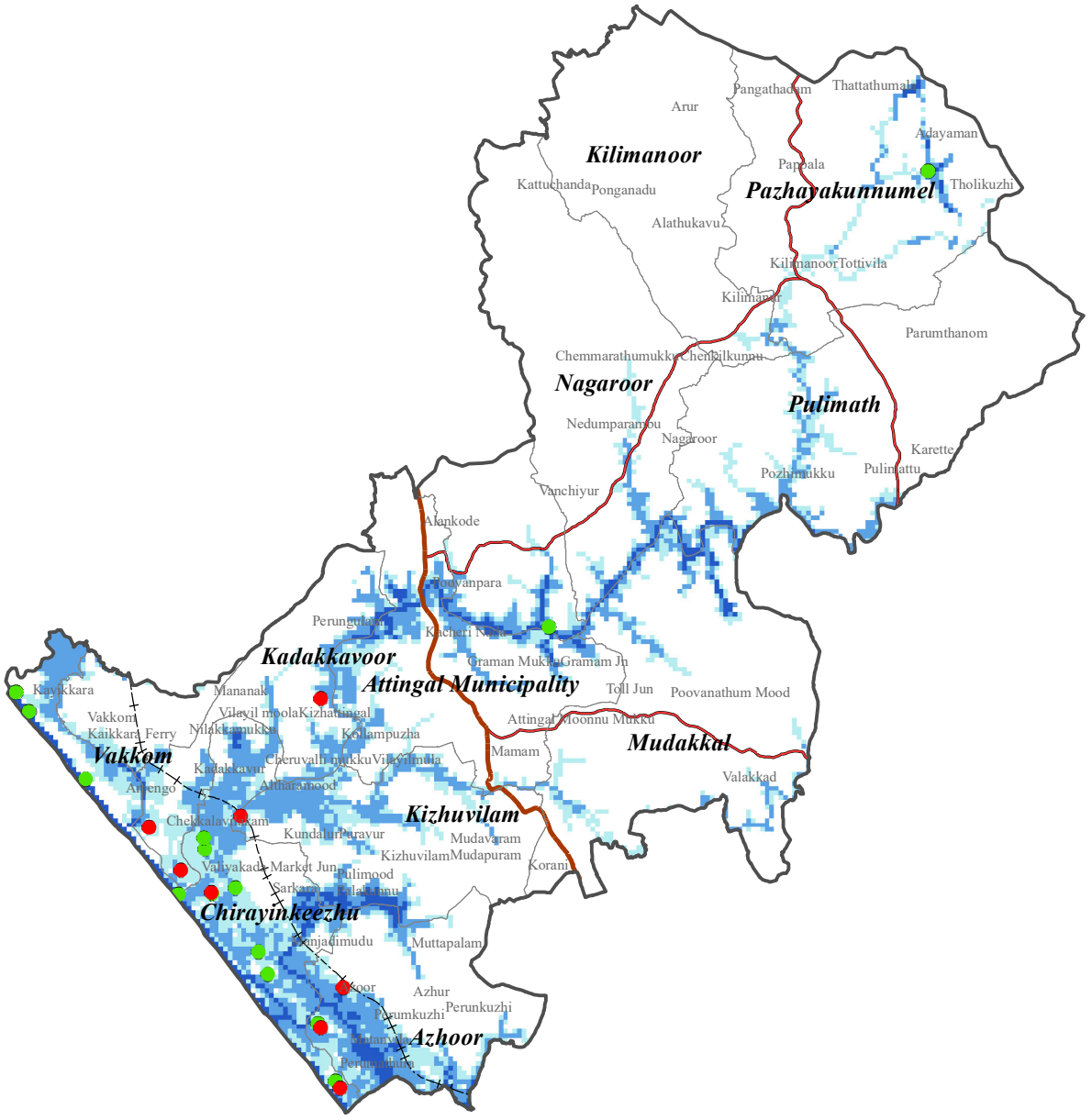
CHIRAYINKEEZHU TALUK (THIRUVANANTHAPURAM DISTRICT)

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



CHIRAYINKEEZHU TALUK (THIRUVANANTHAPURAM DISTRICT)

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



THIRUVANANTHAPURAM DISTRICT

CHIRAYINKEEZHU TALUK

1 in 10 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Anchuthengu	1.84	8.84
2	Attingal Municipality	2.80	6.81
3	Azhoor	4.65	11.4
4	Chirayinkeezhu	6.83	12.5
5	Kadakkavoor	2.39	8.75
6	Karavaram	0.92	6.7
7	Kilimanoor	0.05	1.4
8	Kizhuvilam	4.11	9.97
9	Mudakkal	1.49	6.91
10	Nagaroor	0.75	6.85
11	Pazhayakunnumel	1.76	17.91
12	Pulimath	1.62	7.15
13	Vakkom	0.31	6.56

1 in 25 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Anchuthengu	1.97	9.66
2	Attingal Municipality	3.32	8.12
3	Azhoor	4.99	11.92
4	Chirayinkeezhu	7.59	13.05
5	Kadakkavoor	2.84	9.65
6	Karavaram	1.03	8.16
7	Kilimanoor	0.10	1.72
8	Kizhuvilam	4.33	10.5
9	Mudakkal	1.80	8.41
10	Nagaroor	0.90	8.41
11	Pazhayakunnumel	1.83	18.14
12	Pulimath	1.82	7.46
13	Vakkom	0.47	7.21

1 in 50 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Anchuthengu	2.11	10.26
2	Attingal Municipality	3.68	8.99
3	Azhoor	5.15	12.26
4	Chirayinkeezhu	7.97	13.42
5	Kadakkavoor	3.09	10.25
6	Karavaram	1.20	9.06
7	Kilimanoor	0.12	2.37
8	Kizhuvilam	4.47	10.82
9	Mudakkal	2.22	15.33
10	Nagaroor	1.03	9.31
11	Pazhayakunnumel	1.88	18.31
12	Pulimath	2.08	12.27
13	Vakkom	0.51	7.63

1 in 100 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Anchuthengu	2.16	10.65
2	Attingal Municipality	4.07	9.75
3	Azhoor	5.21	12.5
4	Chirayinkeezhu	8.16	13.67
5	Kadakkavoor	3.34	10.64
6	Karavaram	1.31	9.86
7	Kilimanoor	0.13	3.07
8	Kizhuvilam	4.67	11.07
9	Mudakkal	2.54	15.88
10	Nagaroor	1.09	10.11
11	Pazhayakunnumel	1.95	18.44
12	Pulimath	2.38	12.79
13	Vakkom	0.61	8.05

1 in 200 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Anchuthengu	2.47	10.95
2	Attingal Municipality	4.23	10.41
3	Azhoor	5.27	12.73
4	Chirayinkeezhu	8.34	13.9
5	Kadakkavoor	3.57	10.94
6	Karavaram	1.42	10.56
7	Kilimanoor	0.14	3.67
8	Kizhuvilam	4.77	11.28
9	Mudakkal	2.92	16.71
10	Nagaroor	1.19	10.85
11	Pazhayakunnumel	1.98	18.55
12	Pulimath	2.63	13.35
13	Vakkom	0.74	9.01

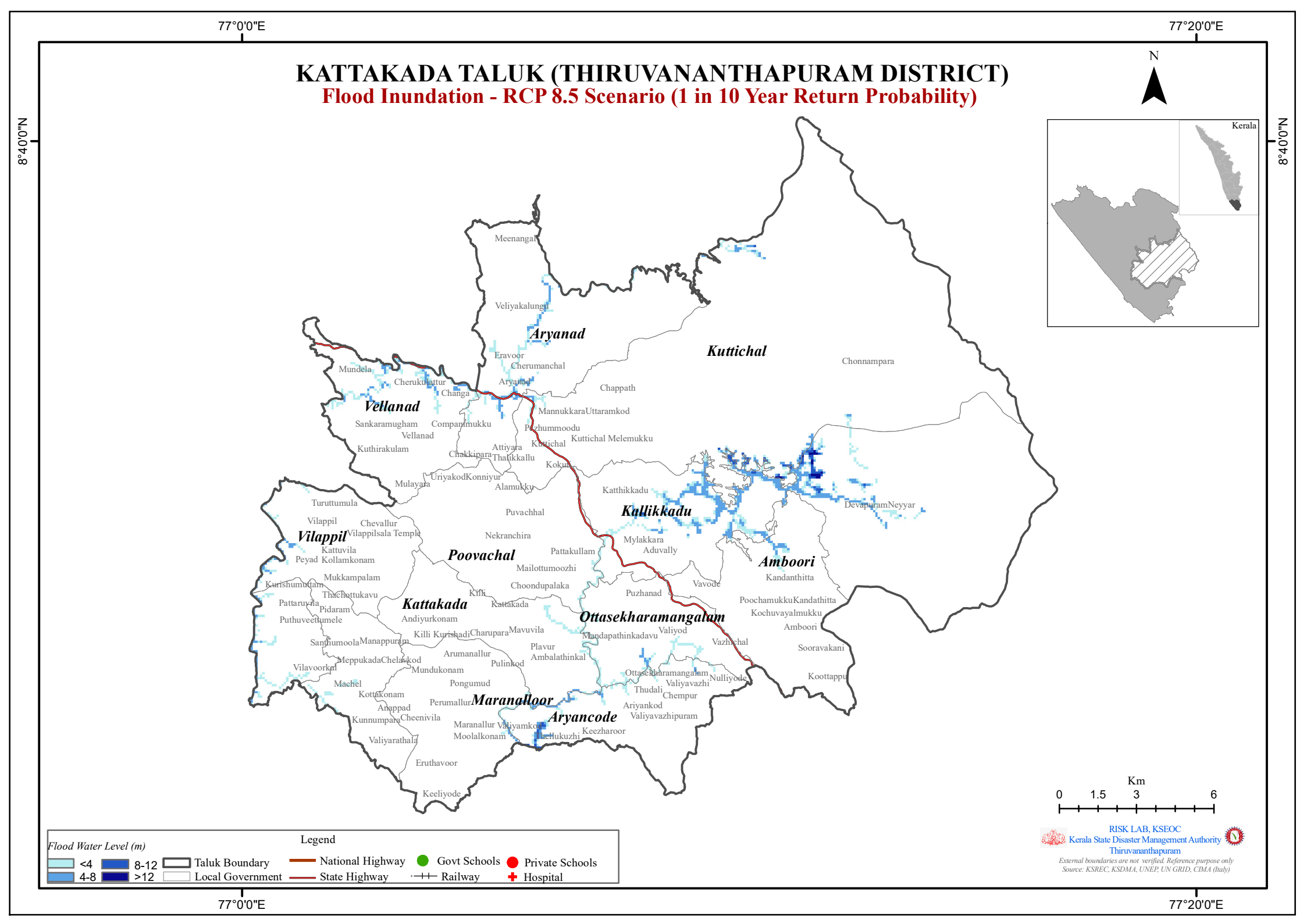
1 in 500 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Anchuthengu	2.52	11.15
2	Attingal Municipality	4.50	11.31
3	Azhoor	5.34	12.89
4	Chirayinkeezhu	8.45	14.06
5	Kadakkavoor	3.72	11.14
6	Karavaram	1.57	11.43
7	Kilimanoor	0.20	4.37
8	Kizhuvilam	4.97	11.46
9	Mudakkal	3.42	17.19
10	Nagaroor	1.34	11.71
11	Pazhayakunnumel	2.06	18.65
12	Pulimath	2.98	14.65
13	Vakkom	0.81	9.32

THIRUVANANTHAPURAM DISTRICT						
CHIRAYINKEEZHU 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
Anchuthengu						
School						
G A M L P S Kayikkara	✓	✓	✓	✓	✓	✓
M M M G L P S Nedunganda	✓	✓	✓	✓	✓	✓
St.Alloysius L P S Mampally	✓	✓	✓	✓	✓	✓
St.Joseph'S H S S Anchuthengu	✓	✓	✓	✓	✓	✓
Azhoor						
School						
Perumkuzhy	✓	✓	✓	✓	✓	✓
S I U P S Madanvila		✓	✓	✓	✓	✓
Chirayinkeezhu						
School						
Govt. L P S Aryavilasom	✓	✓	✓	✓	✓	✓
Govt. L P S Melkadakkavur	✓	✓	✓	✓	✓	✓
Govt. L P S Perumathura	✓	✓	✓	✓	✓	✓
Govt. U P S Anathalavattom	✓	✓	✓	✓	✓	✓
Govt. U P S Pillayarkulam	✓	✓	✓	✓	✓	✓
Palavila	✓	✓	✓	✓	✓	✓
Perumkuzhy	✓	✓	✓	✓	✓	✓
St. Alosious L P S Chirayinkeezhu	✓	✓	✓	✓	✓	✓
St. Veronica`S L P S Chirayinkeezhu	✓	✓	✓	✓	✓	✓
Kadakkavoor						
School						
Keezhattingal	✓	✓	✓	✓	✓	✓
Nedunganda	✓	✓	✓	✓	✓	✓
Karavaram						
School						
Govt L P S Kattapparambu	✓	✓	✓	✓	✓	✓
Kizhuvilam						
School						
Palavila	✓	✓	✓	✓	✓	✓
Pazhayakunnumel						
School						
Govt. LPS Adayamon	✓	✓	✓	✓	✓	✓

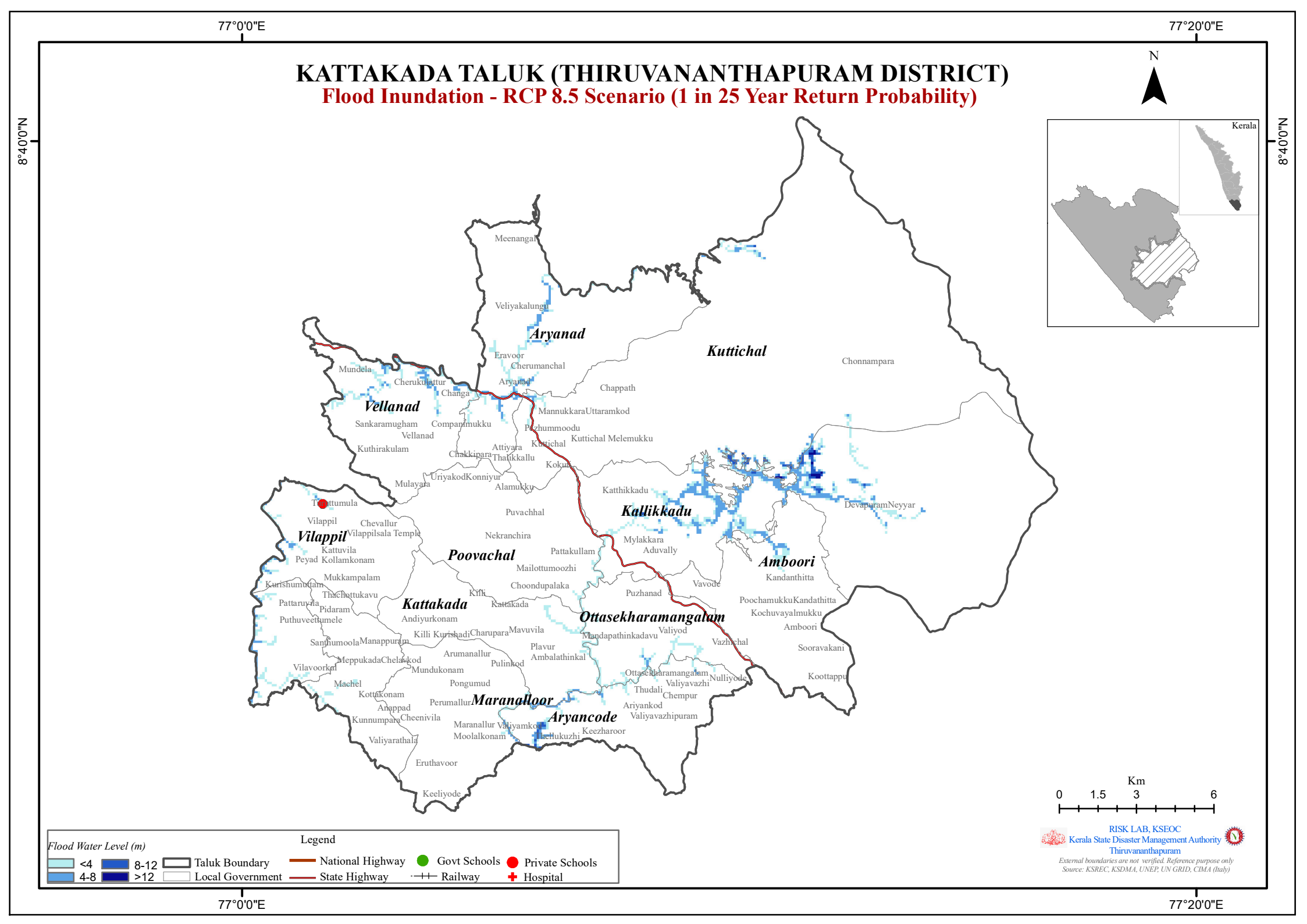
KATTAKADA TALUK (THIRUVANANTHAPURAM DISTRICT)

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



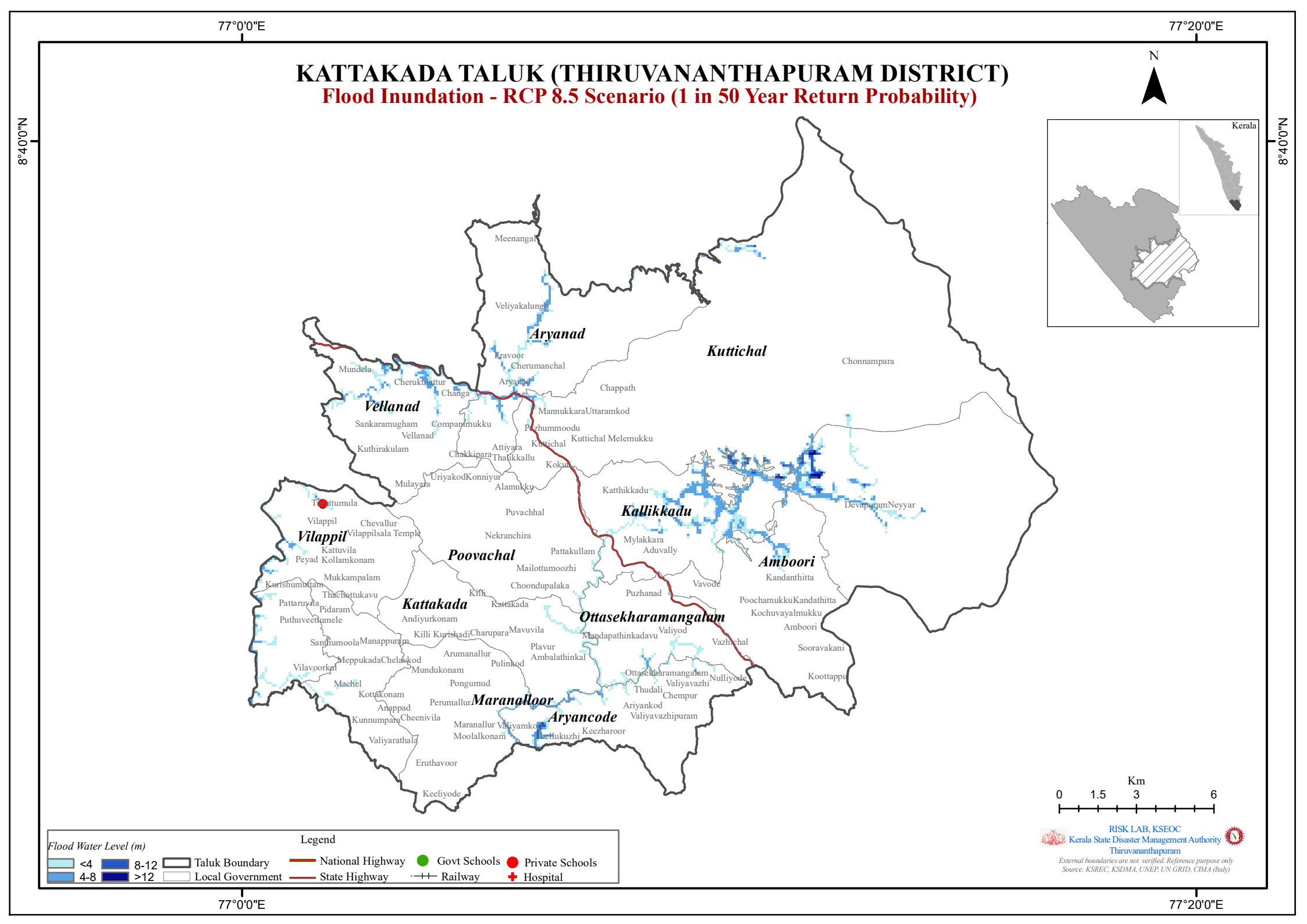
KATTAKADA TALUK (THIRUVANANTHAPURAM DISTRICT)

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



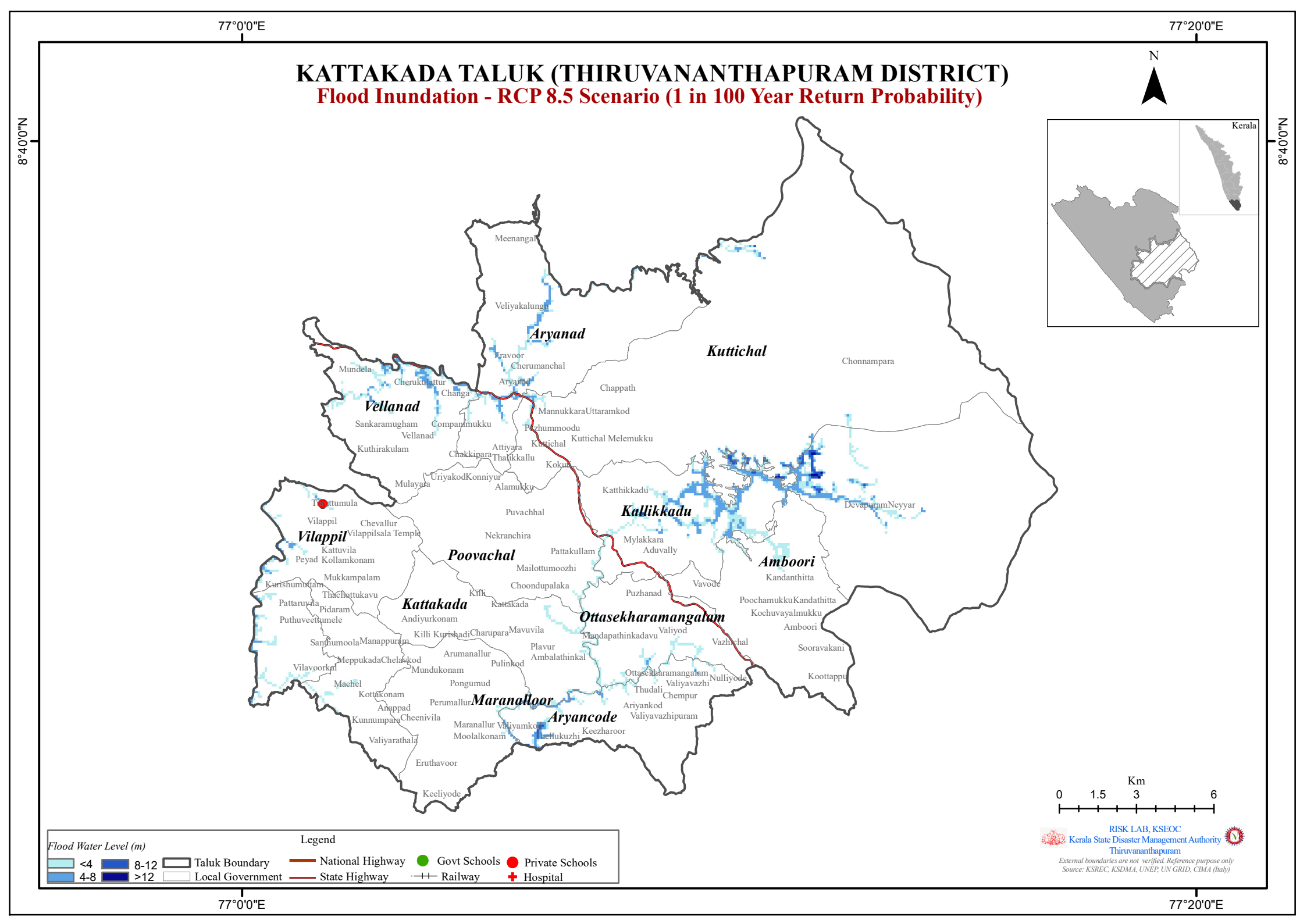
KATTAKADA TALUK (THIRUVANANTHAPURAM DISTRICT)

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



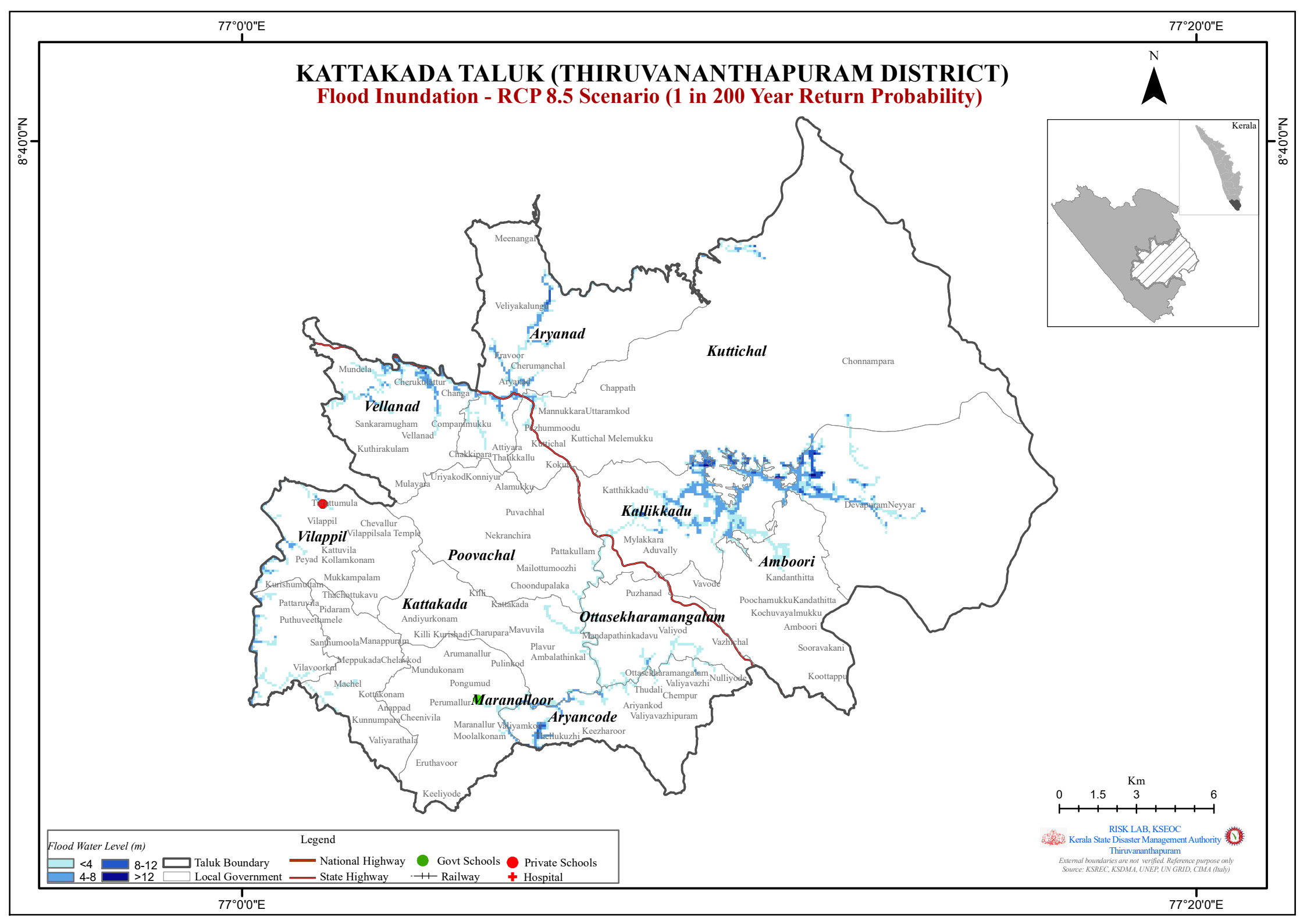
KATTAKADA TALUK (THIRUVANANTHAPURAM DISTRICT)

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



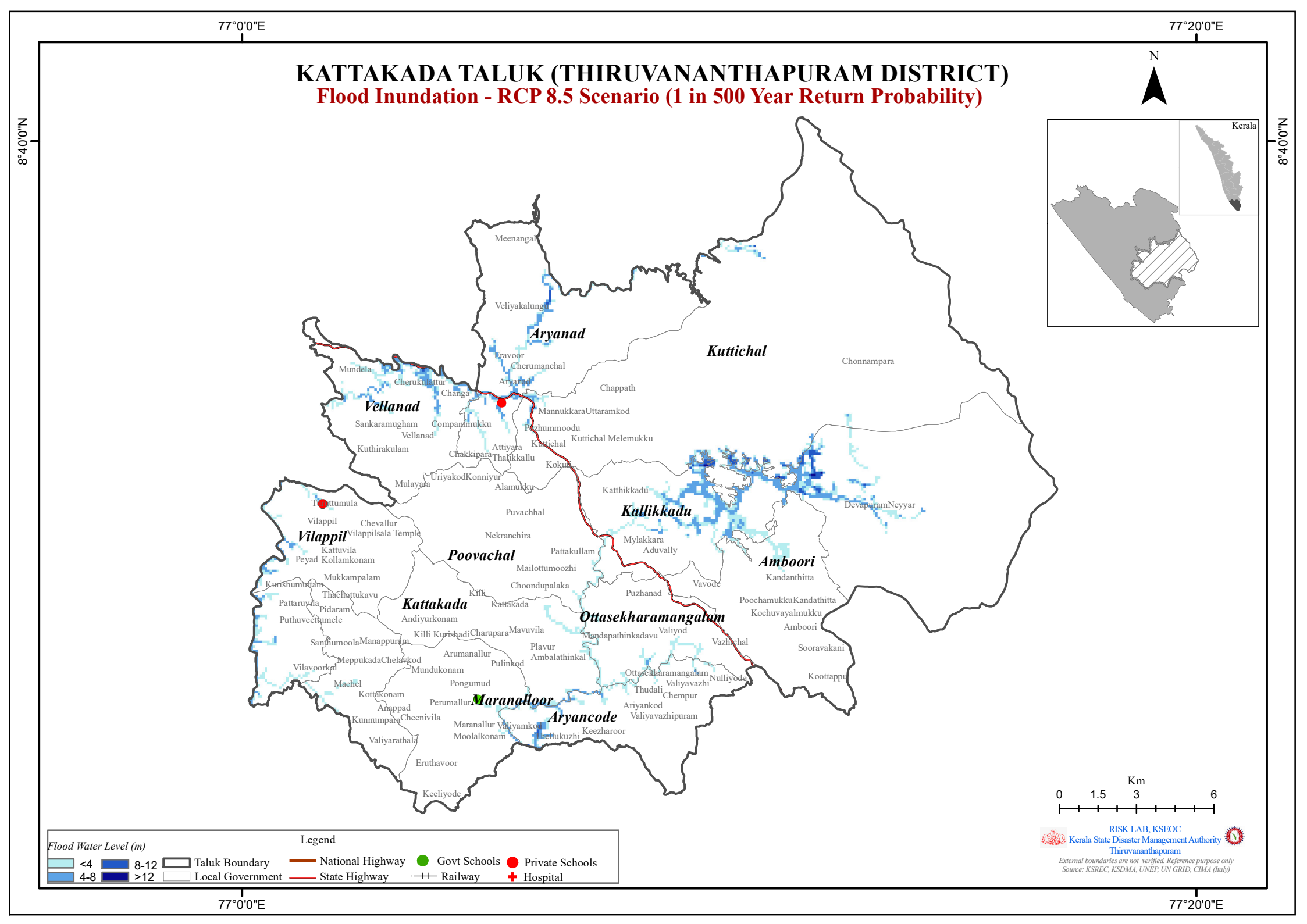
KATTAKADA TALUK (THIRUVANANTHAPURAM DISTRICT)

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



KATTAKADA TALUK (THIRUVANANTHAPURAM DISTRICT)

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



THIRUVANANTHAPURAM DISTRICT

KATTAKADA TALUK

1 in 10 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Amboori	0.35	4.35
2	Aryancode	1.11	16.29
3	Kallikkadu	6.28	26.05
4	Kattakada	0.66	4.3
5	Kuttichal	1.42	23.48
6	Malayinkeezh	0.25	1.55
7	Maranalloor	0.19	16.29
8	Ottasekharamangalam	0.96	3.84
9	Poovachal	0.20	1.17
10	Vellanad	1.61	5.7
11	Vilappil	0.59	4.07
12	Vilavoorkal	0.77	5.31

1 in 25 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Amboori	0.41	5.14
2	Aryancode	1.15	16.51
3	Kallikkadu	6.68	26.14
4	Kattakada	0.71	4.85
5	Kuttichal	1.51	23.59
6	Malayinkeezh	0.26	1.57
7	Maranalloor	0.19	16.51
8	Ottasekharamangalam	0.96	3.87
9	Poovachal	0.23	1.28
10	Vellanad	1.76	7.2
11	Vilappil	0.82	4.85
12	Vilavoorkal	0.89	6.12

1 in 50 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Amboori	0.47	5.39
2	Aryancode	1.21	16.67
3	Kallikkadu	7.13	26.14
4	Kattakada	0.74	5
5	Kuttichal	1.57	23.59
6	Malayinkeezh	0.27	1.65
7	Maranalloor	0.19	16.67
8	Ottasekharamangalam	0.97	3.91
9	Poovachal	0.23	1.37
10	Vellanad	1.90	8.3
11	Vilappil	0.85	5.01
12	Vilavoorkal	0.93	6.31

1 in 100 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Amboori	0.47	5.95
2	Aryancode	1.23	16.82
3	Kallikkadu	7.33	26.24
4	Kattakada	0.75	5.26
5	Kuttichal	1.65	23.68
6	Malayinkeezh	0.27	1.65
7	Maranalloor	0.21	16.82
8	Ottasekharamangalam	0.97	3.93
9	Poovachal	0.23	1.47
10	Vellanad	2.08	9.2
11	Vilappil	0.87	5.23
12	Vilavoorkal	0.96	6.71

1 in 200 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Amboori	0.47	6.44
2	Aryancode	1.29	16.9
3	Kallikkadu	7.65	26.24
4	Kattakada	0.78	5.66
5	Kuttichal	1.92	23.68
6	Malayinkeezh	0.27	1.73
7	Maranalloor	0.32	16.9
8	Ottasekharamangalam	0.99	3.94
9	Poovachal	0.23	1.56
10	Vellanad	2.21	9.7
11	Vilappil	0.89	5.53
12	Vilavoorkal	1.00	6.71

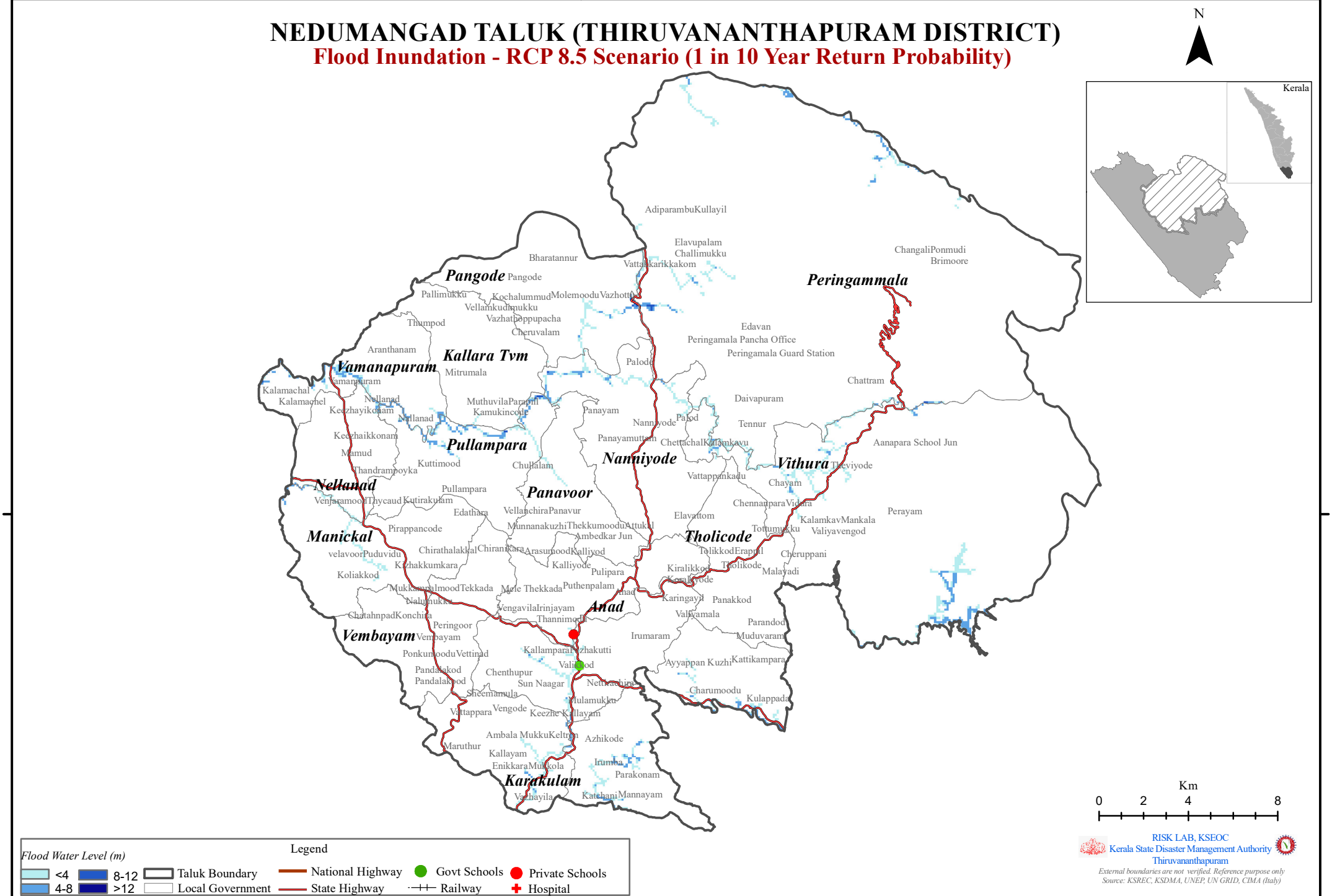
1 in 500 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Amboori	0.48	6.95
2	Aryancode	1.33	17.05
3	Kallikkadu	7.79	26.24
4	Kattakada	0.81	6.04
5	Kuttichal	1.98	23.69
6	Malayinkeezh	0.27	1.73
7	Maranalloor	0.33	17.05
8	Ottasekharamangalam	1.00	3.99
9	Poovachal	0.23	1.75
10	Vellanad	2.37	10.7
11	Vilappil	0.91	5.9
12	Vilavoorkal	1.03	6.79

THIRUVANANTHAPURAM DISTRICT						
KATTAKADA 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
Maranalloor						
School						
St. Thresias L. P. S. Veliyamcode					✓	✓
Vilappil						
School						
Vilappil		✓	✓	✓	✓	✓

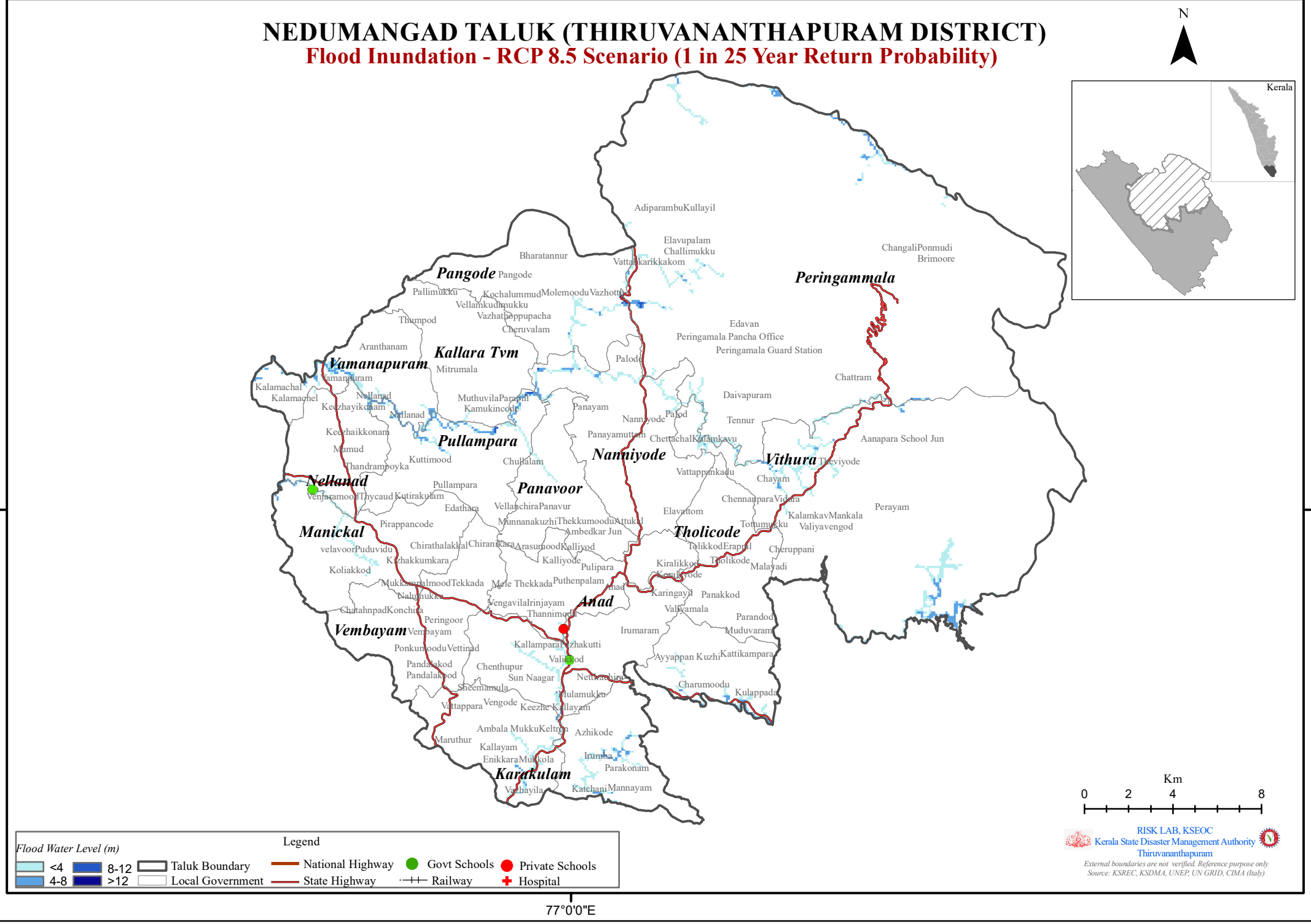
NEDUMANGAD TALUK (THIRUVANANTHAPURAM DISTRICT)

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



NEDUMANGAD TALUK (THIRUVANANTHAPURAM DISTRICT)

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



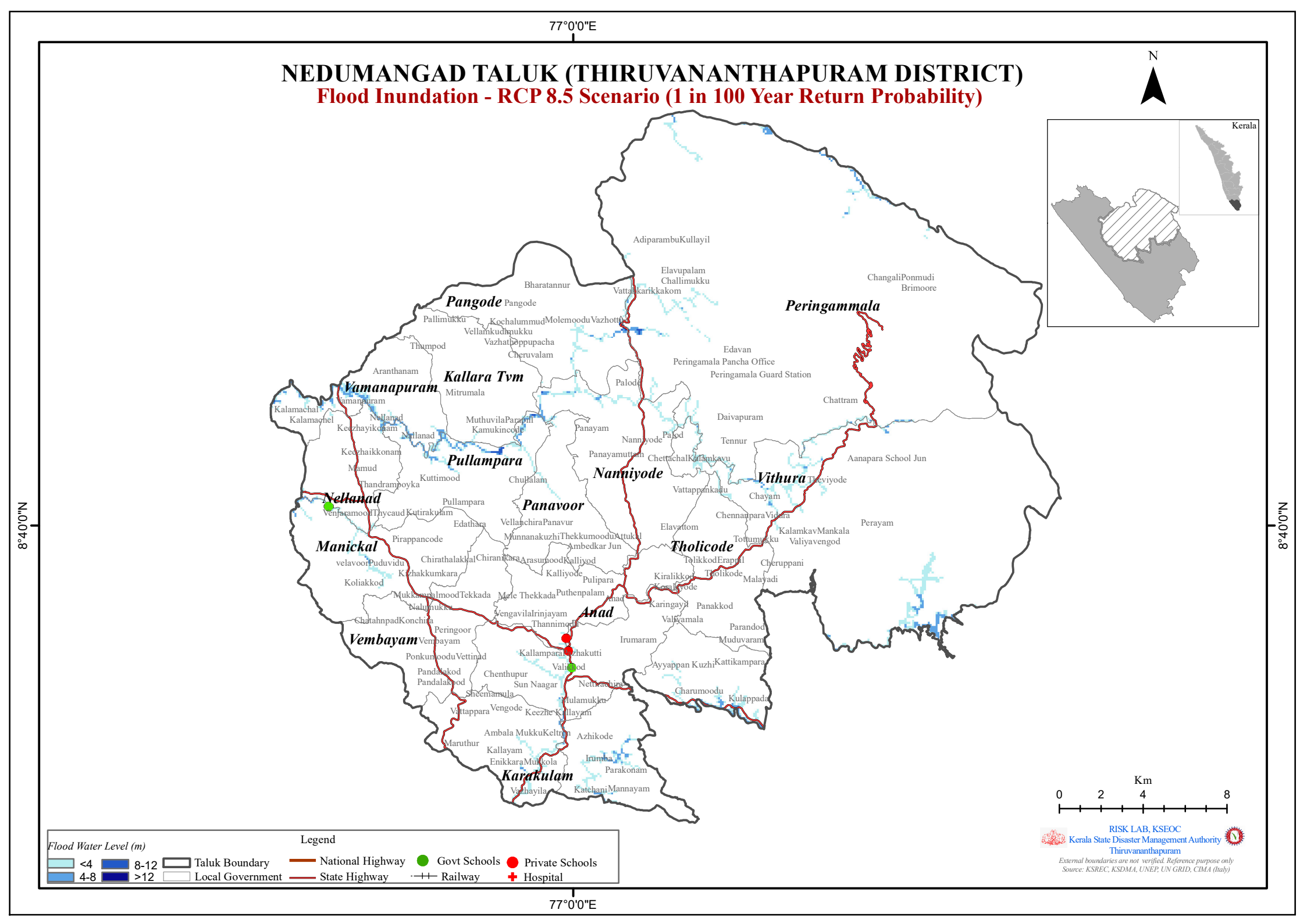
NEDUMANGAD TALUK (THIRUVANANTHAPURAM DISTRICT)

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



NEDUMANGAD TALUK (THIRUVANANTHAPURAM DISTRICT)

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

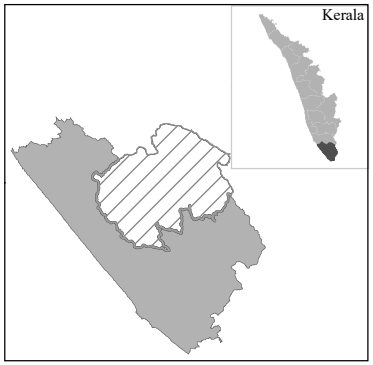


77°0'0"E

NEDUMANGAD TALUK (THIRUVANANTHAPURAM DISTRICT)

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

N



8°40'0"N

AdiparambuKullayil
Elavupalam
Challimukku
ChangaliPonmudi
Brimoore
Bharatannur
Vattakarikkakom
Pangode
Pangode
Peringammala
Pallimukku
KochalummudMolemooduVazhotti
Vellamkudimukku
Vazhatappupacha
Cheruvalam
Thumpod
Edavan
Peringamala Pancha Office
Peringamala Guard Station
Aranthanam
Kallara Tvm
Vamanapuram
Mitrumala
Palod
Chattram
Kalamachal
Kalamachel
Nellanad
Keezhayikkonam
MuthuvilaParappil
Kamukincode
Panayam
Daivapuram
Nellanad
Nanniyode
Palod
Tennur
Keezhaikkonam
Panayamuttam
ChettachalKalamkavu
Aanapara School Jun
Pullampara
Nanniyode
Vithura
Mamud
Kuttimood
Thandrampoyka
Chullalam
Theviyode
Vattappankadu
Nellanad
Chayam
Pullampara
Panavoor
Venjaramood Thycaud Kutirakulam
Edathara
VellanchiraPanavur
ChennanparaVidara
Perayam
Elavattom
KalamkavMankala
Pirappancode
Munnanakuzhi ThekkumooduAttukal
Ambedkar Jun
Valiyavengod
Manickal
Tholicode
Tottumukku
velavoor Puduvidu
Chirathalakkal
ChiranikaraArasumoodKalliyod
TolikkodErapuri
Cheruppani
Kizhakkumkara
Kalliyode
Tholikode
Malayadi
Koliakkod
Pulipara
Kiralikkod
Keezhkode
Mukkampalmood Tekkada
Mele Thekkada
Puthenpalam
Anad
Karingayil
Panakkod
Nalumukku
VengavilaIrinjayam
Anad
Valiyamala
ChathanpadKonchira
Thannimood
Parandod
Peringoor
Vembayam
Irumaram
Muduvaram
Vembayam
Ponkumoodu Vettinad
Kallamparakuzhakutti
Ayyappan Kuzhi
Kattikampara
Valiyod
Pandalakod
Chenthupur
Pandalakod
Sun Naagar
Charumoodu
Sheemamula
Mulamukku
Kulappada
Vattappara
Vengode
Keezhe Kallayam
Ambala MukkuKeltron
Azhikode
Maruthur
Kallayam
Irumba
Enikkara Mukkola
Parakonam
Karakulam
Vazhayila
Katchani Mannayam

8°40'0"N

77°0'0"E

Km
0 2 4 8

RISK LAB, KSEOC
Kerala State Disaster Management Authority
Thiruvananthapuram

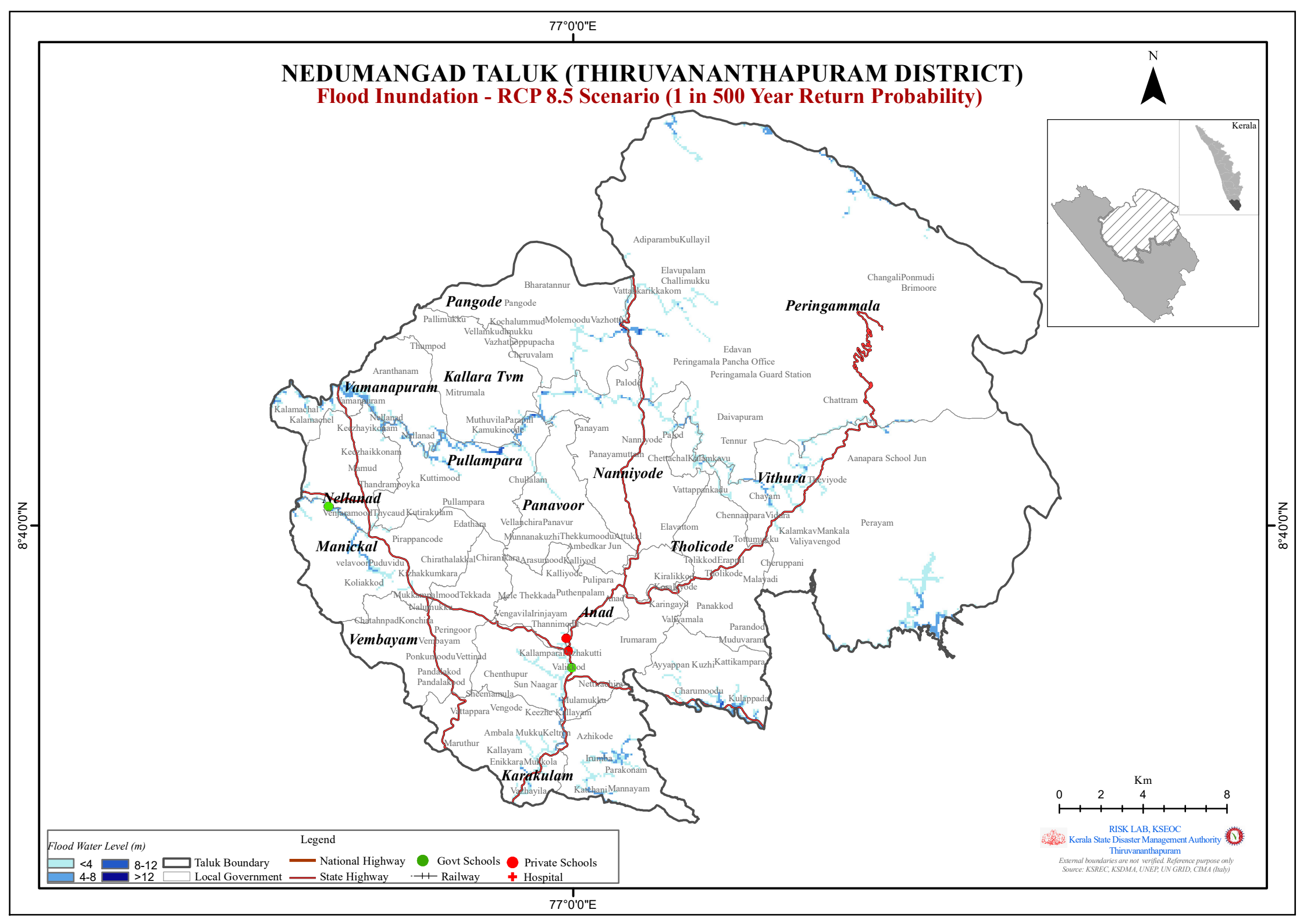
External boundaries are not verified. Reference purpose only
Source: KSREC, KSDMA, UNEP, UN GRID, CIMA (Italy)

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

NEDUMANGAD TALUK (THIRUVANANTHAPURAM DISTRICT)

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



THIRUVANANTHAPURAM DISTRICT

NEDUMANGAD TALUK

1 in 10 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Anad	0.06	1.32
2	Aruvikkara	1.22	4.07
3	Aryanad	1.75	5.81
4	Kallara Tvm	0.12	6.28
5	Karakulam	0.73	3.67
6	Manickal	0.75	3.83
7	Nanniyode	1.26	9.66
8	Nedumangad Municipality	0.76	2.99
9	Nellanad	0.34	4.31
10	Panavoor	0.19	4.29
11	Pangode	0.76	13.12
12	Peringammala	3.00	13.12
13	Pullampara	1.54	10.94
14	Uzhamalakkal	0.85	5.7
15	Vamanapuram	1.35	7.15
16	Vithura	4.12	8.19

1 in 25 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Anad	0.06	1.52
2	Aruvikkara	1.32	4.49
3	Aryanad	1.89	6.26
4	Kallara Tvm	0.13	6.29
5	Karakulam	0.76	3.86
6	Manickal	0.81	4.89
7	Nanniyode	1.29	9.76
8	Nedumangad Municipality	0.79	3.21
9	Nellanad	0.39	4.89
10	Panavoor	0.20	4.71
11	Pangode	0.78	13.35
12	Peringammala	3.19	13.35
13	Pullampara	1.67	11.07
14	Uzhamalakkal	1.05	7.2
15	Vamanapuram	1.54	7.28
16	Vithura	4.31	8.19

1 in 50 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Anad	0.06	1.8
2	Aruvikkara	1.37	4.95
3	Aryanad	2.00	7.16
4	Kallara Tvm	0.14	6.39
5	Karakulam	0.81	3.95
6	Manickal	0.89	5.05
7	Nanniyode	1.31	9.76
8	Nedumangad Municipality	0.83	3.48
9	Nellanad	0.42	5.39
10	Panavoor	0.22	5.01
11	Pangode	0.80	13.53
12	Peringammala	3.34	13.53
13	Pullampara	1.78	11.16
14	Uzhamalakkal	1.14	8.3
15	Vamanapuram	1.76	7.99
16	Vithura	4.44	8.19

1 in 100 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Anad	0.09	2.02
2	Aruvikkara	1.46	5.47
3	Aryanad	2.10	8.05
4	Kallara Tvm	0.14	6.61
5	Karakulam	0.82	4.04
6	Manickal	1.03	5.92
7	Nanniyode	1.36	9.86
8	Nedumangad Municipality	0.83	3.88
9	Nellanad	0.45	5.92
10	Panavoor	0.22	5.24
11	Pangode	0.82	13.67
12	Peringammala	3.47	13.67
13	Pullampara	1.86	11.2
14	Tholicode	0.07	0.94
15	Uzhamalakkal	1.39	9.2
16	Vamanapuram	1.97	8.73
17	Vithura	4.63	8.19

1 in 200 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Anad	0.09	2.21
2	Aruvikkara	1.58	6
3	Aryanad	2.39	8.75
4	Kallara Tvm Ktm	0.14	6.84
5	Karakulam	0.83	4.29
6	Manickal	1.13	6.8
7	Nanniyode	1.38	9.86
8	Nedumangad Municipality	0.86	4.34
9	Nellanad	0.49	6.79
10	Panavoor	0.23	5.28
11	Pangode	0.85	13.85
12	Peringammala	3.55	13.85
13	Pullampara	1.91	11.26
14	Tholicode	0.07	1.36
15	Uzhamalakkal	1.49	9.7
16	Vamanapuram	2.04	9.33
17	Vithura	4.71	8.24

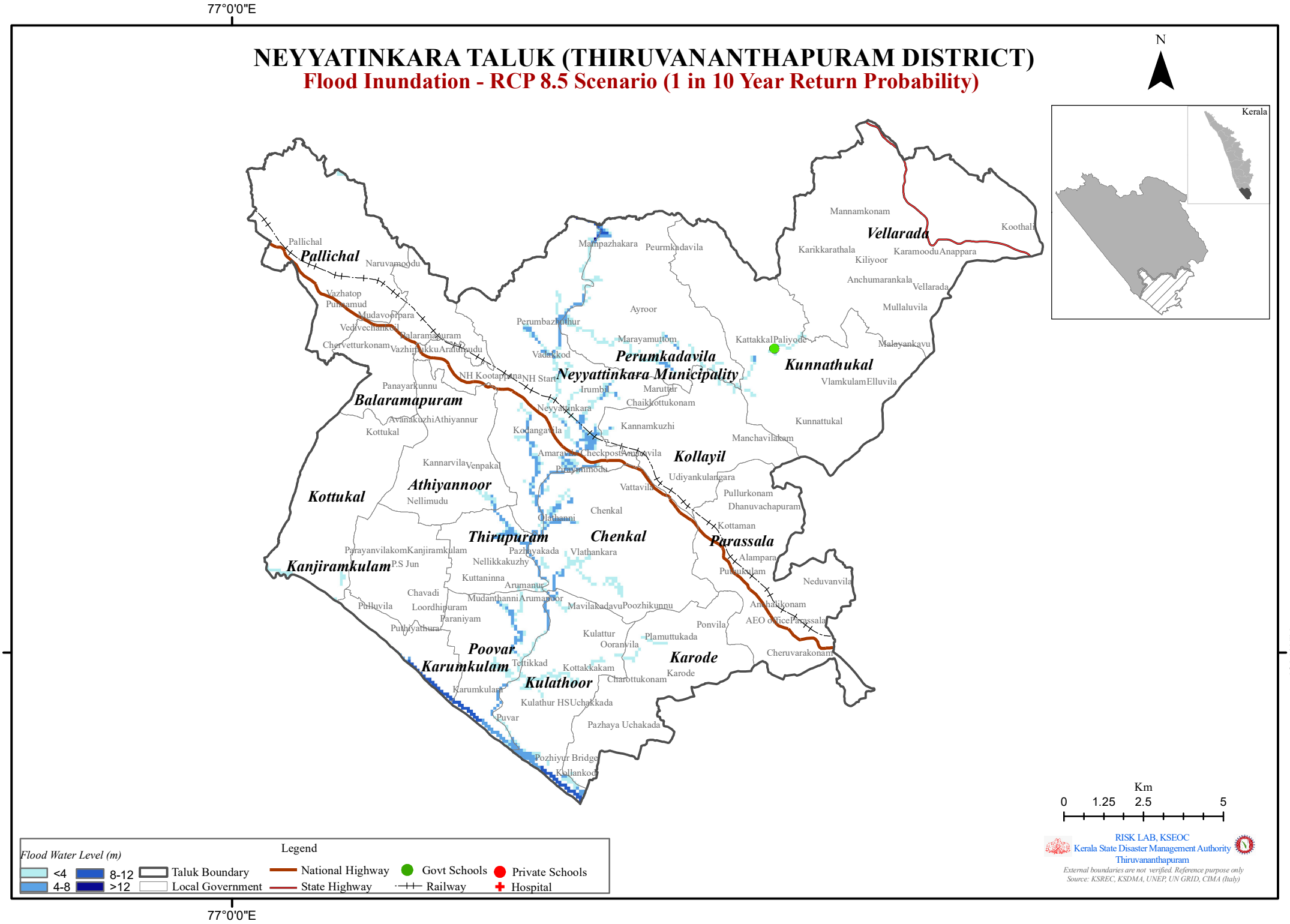
1 in 500 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Anad	0.11	2.59
2	Aruvikkara	1.62	6.63
3	Aryanad	2.54	9.64
4	Kallara Tvm	0.16	7.13
5	Karakulam	0.95	4.79
6	Manickal	1.45	8.13
7	Nanniyode	1.51	9.96
8	Nedumangad Municipality	0.92	4.83
9	Nellanad	0.61	8.11
10	Panavoor	0.23	5.41
11	Pangode	0.85	14.04
12	Peringammala	3.77	14.04
13	Pullampara	2.00	11.35
14	Tholicode	0.07	1.56
15	Uzhamalakkal	1.57	10.7
16	Vamanapuram	2.28	10.09
17	Vithura	4.78	8.24

THIRUVANANTHAPURAM DISTRICT						
NEDUMANGAD 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
Aryanad						
School						
Aryanad						✓
Manickal						
School						
Govt. L. P. S. Vellanickal		✓	✓	✓	✓	✓
Nedumangad Municipality						
School						
Anad	✓	✓	✓	✓	✓	✓
Govt. Town UPS Nedumangad	✓	✓	✓	✓	✓	✓
Nedumangad			✓	✓	✓	✓

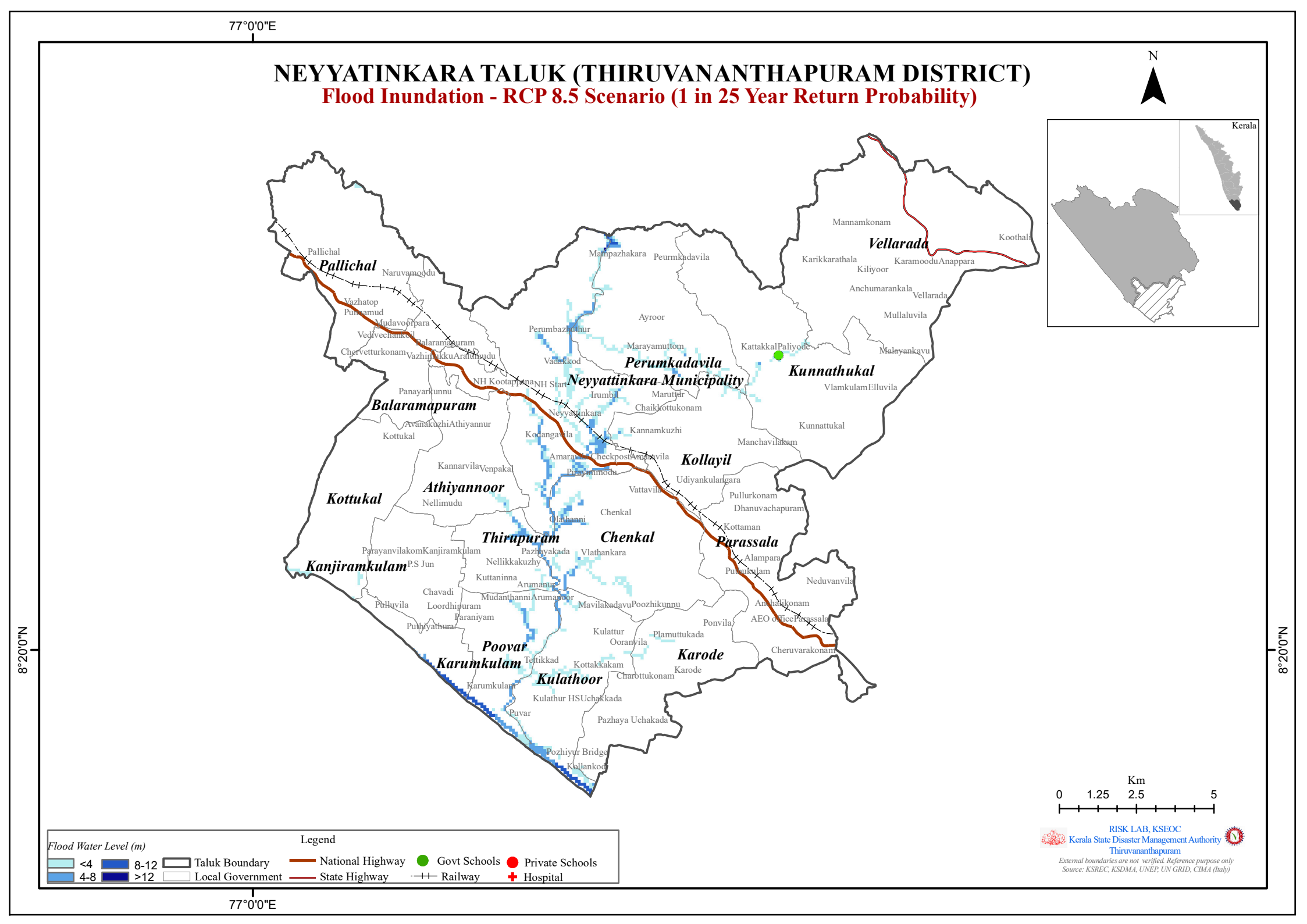
NEYYATINKARA TALUK (THIRUVANANTHAPURAM DISTRICT)

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



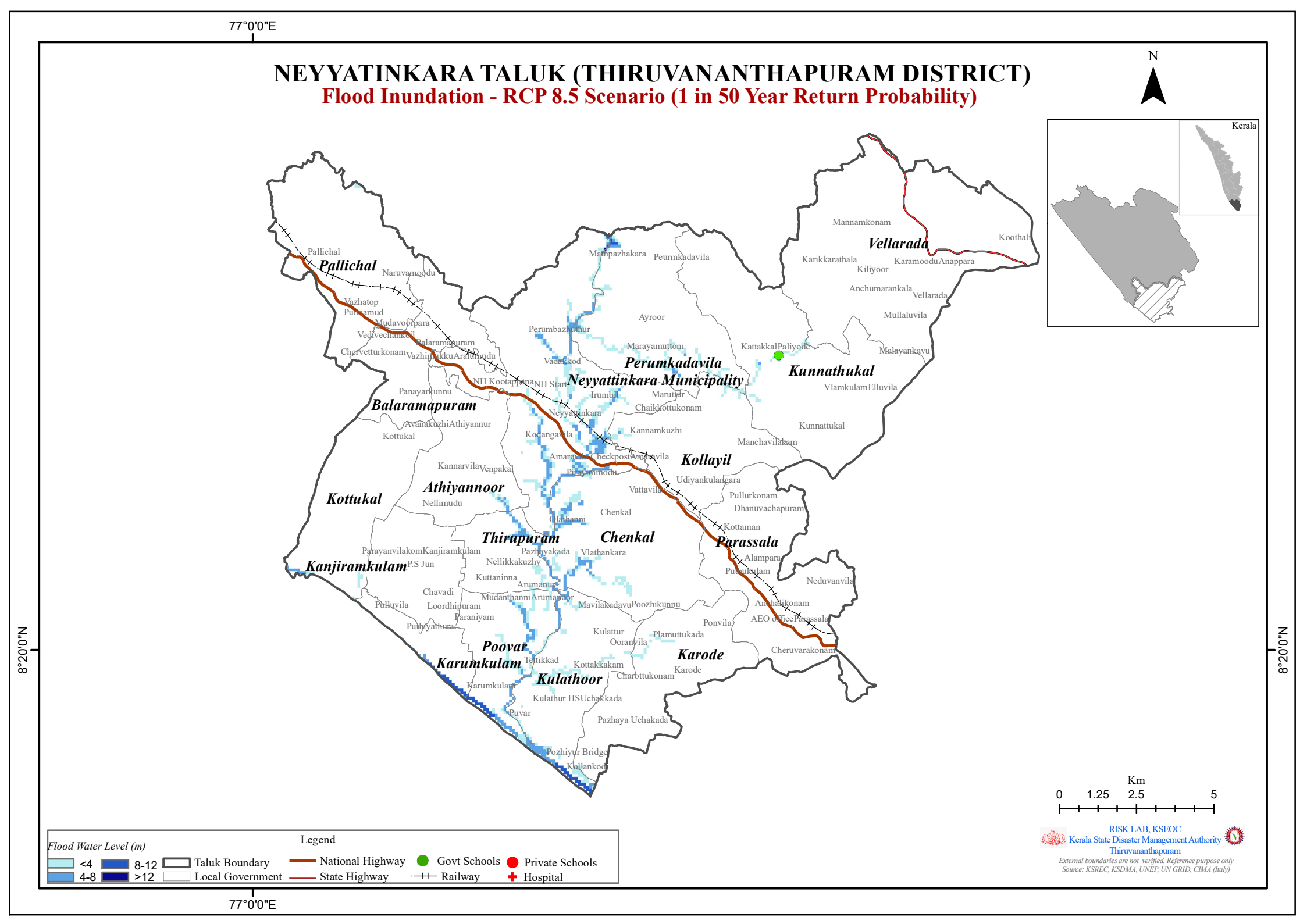
NEYYATINKARA TALUK (THIRUVANANTHAPURAM DISTRICT)

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



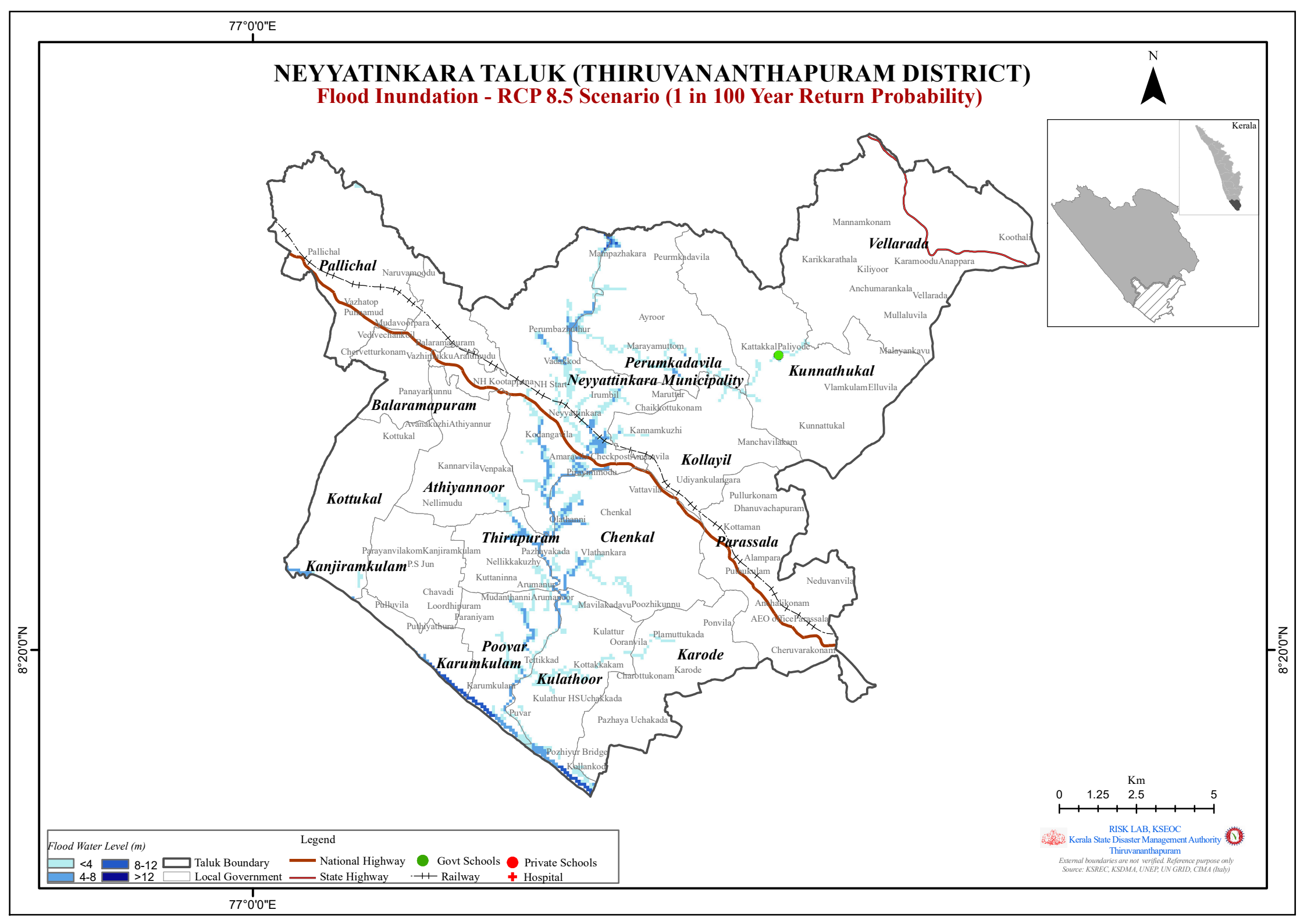
NEYYATINKARA TALUK (THIRUVANANTHAPURAM DISTRICT)

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



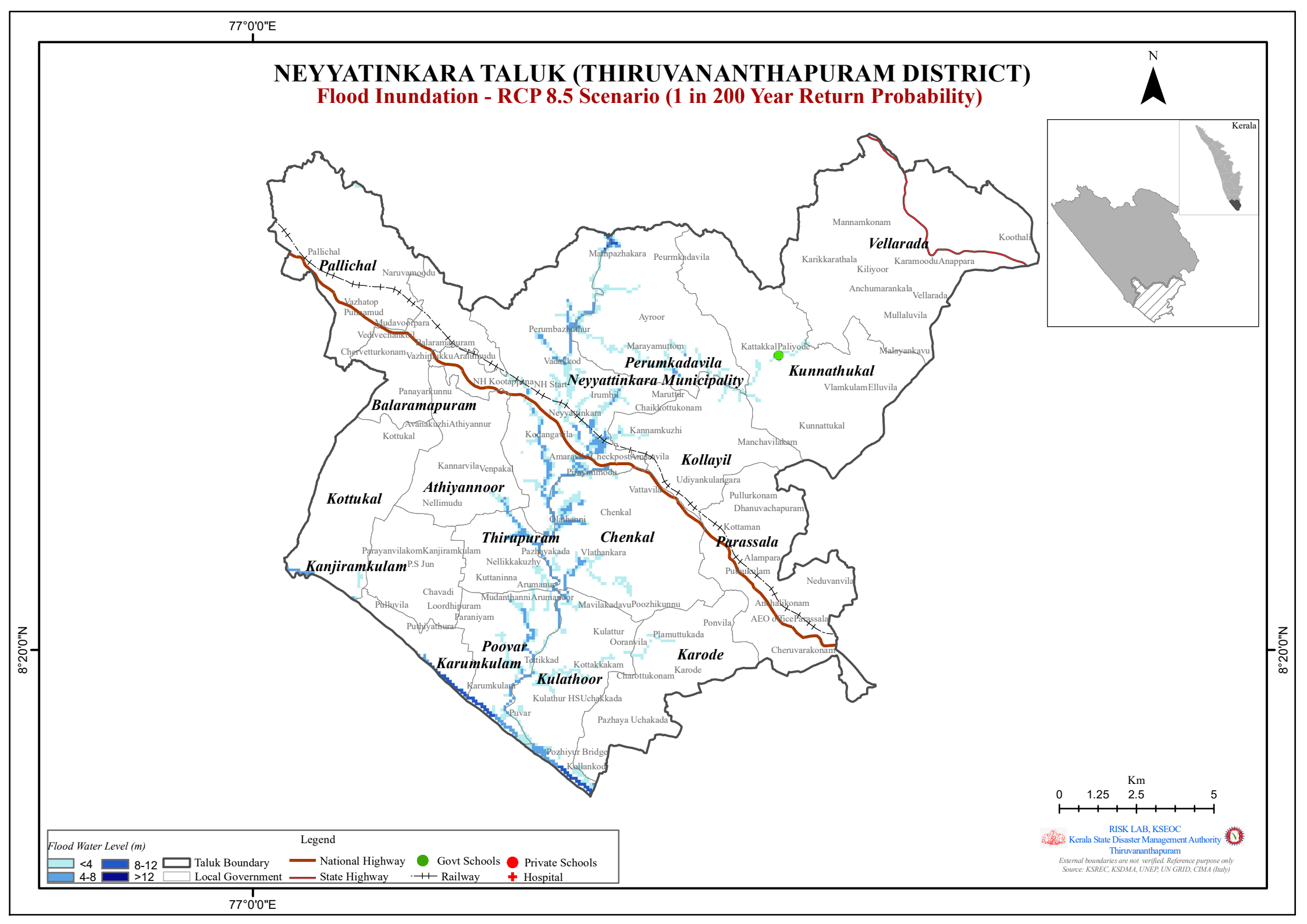
NEYYATINKARA TALUK (THIRUVANANTHAPURAM DISTRICT)

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



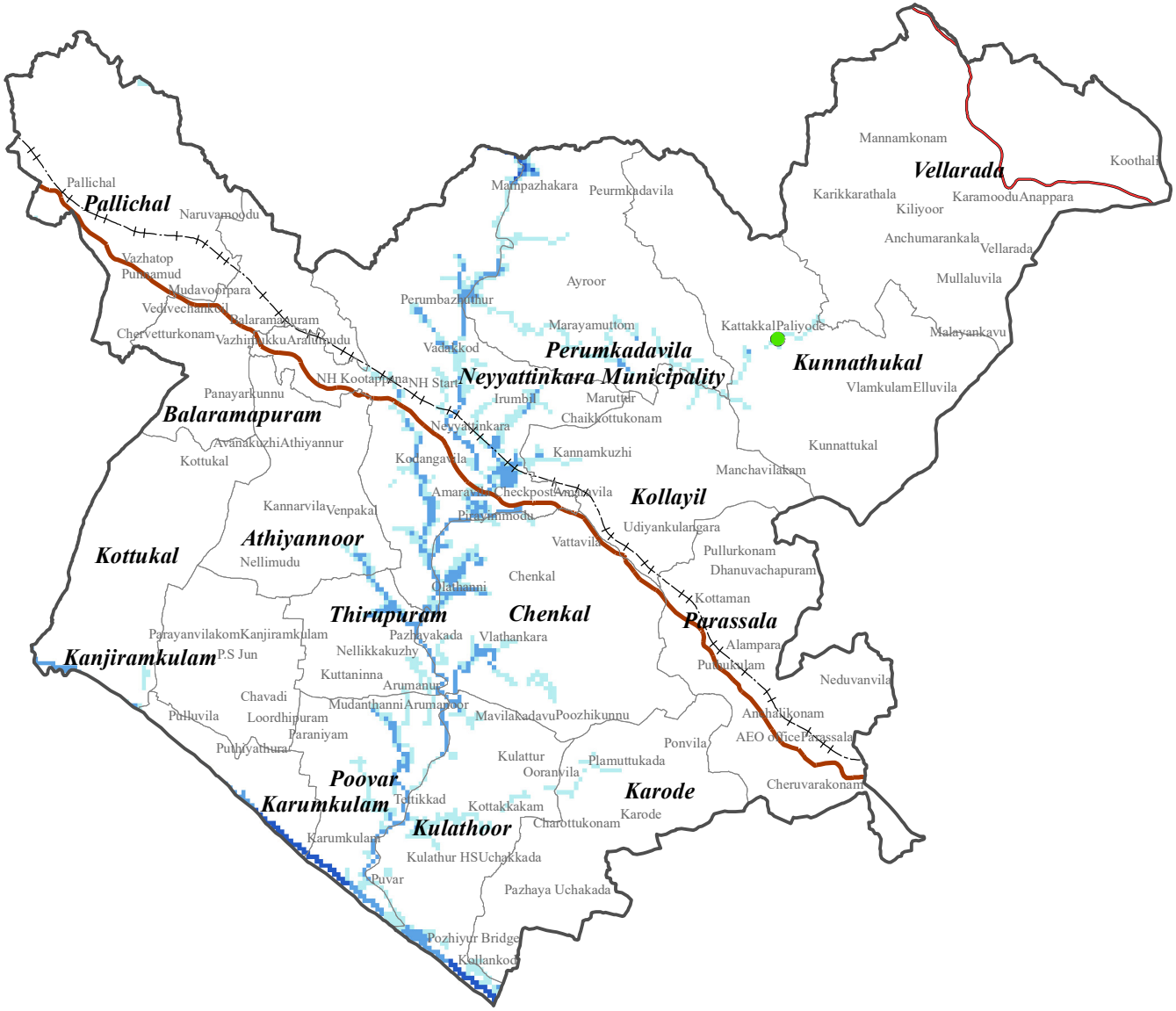
NEYYATINKARA TALUK (THIRUVANANTHAPURAM DISTRICT)

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


77°0'0"E
8°20'0"N
N
Kerala
Pallichal
Pallichal
Naruvamoodu
Vazhatop
Puthenamud
Mudavoorpara
Vedivechankoil
Cheruvetturkonam
Balaramapuram
Vazhimukku
Araluvilakudu
Panayarkunnu
Balaramapuram
Avanakuzhi
Athiyannur
Kottukal
Kottukal
Nellimudu
Athiyannoor
Kannarvila
Venpakal
Kanjiramkulam
Parayanvilakom
Kanjiramkulam
P.S Jun
Chavadi
Polluvila
Loordhipuram
Mudanthanni
Paraniyam
Puthiyathura
Arumanur
Kuttaninna
Nellikkakuzhy
Thirupuram
Pazhayakada
Vlathankara
Mampazhakara
Peurmkadavila
Ayroor
Perumbazhuthur
Marayamuttom
Vadakkod
Perumkadavila
Neyyattinkara Municipality
NH Kootappana
NH Start
Irumbil
Marutur
Chaikkottukonam
Neyyattinkara
Kannamkuzhi
Kodangavila
Amaravila Checkpost
Avuvila
Kollayil
Udiyankulangara
Vattavila
Chenkal
Olathanni
Chenkal
Mannamkonam
Koothali
Vellarada
Karikkarathala
Karamoodu
Anappara
Kiliyoor
Anchumarankala
Vellarada
Mullaluvila
Kattakkal
Paliyode
Malayankavu
Kunnathukal
Vlamkulam
Elluvila
Kunnattukal
Manchavilakam
Pullurkonam
Dhanuvachapuram
Kottaman
Parassala
Alampara
Puthukulam
Neduvanvila
Amchakkonam
AEO office Parassala
Ponvila
Cheruvarakonam
Karode
Karode
Charottukonam
Kulattur
Ooranvila
Plamuttukada
Poovar
Karumkulam
Tettikkad
Kottakkakam
Kulathoor
Karumkulam
Kulathur HS
Uchakkada
Puvar
Pazhaya Uchakada
Pozhiyur Bridge
Kallankod
Poozhikunnu
Mavilakadavu
Ramanthali
Ramanthali
Pallichal
Pallichal
Pallichal

NEYYATINKARA TALUK (THIRUVANANTHAPURAM DISTRICT)

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



THIRUVANANTHAPURAM DISTRICT

NEYYATINKARA TALUK

1 in 10 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Athiyannoor	0.15	2.84
2	Chenkal	1.19	4.79
3	Karode	0.17	2.43
4	Karumkulam	0.23	12.17
5	Kollayil	0.14	2.72
6	Kottukal	0.18	2.48
7	Kulathoor	1.36	10.37
8	Kunnathukal	0.27	3.01
9	Neyyattinkara Municipality	2.85	16.29
10	Pallichal	0.04	1.17
11	Perumkadavila	1.15	15.91
12	Poovar	1.18	13.02
13	Thirupuram	0.42	4.25
14	Vellarada	0.01	0.37

1 in 25 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Athiyannoor	0.15	3.12
2	Chenkal	1.31	5.09
3	Karode	0.17	2.51
4	Karumkulam	0.23	12.23
5	Kollayil	0.20	3.29
6	Kottukal	0.18	2.93
7	Kulathoor	1.43	10.46
8	Kunnathukal	0.27	3.08
9	Neyyattinkara Municipality	3.28	16.83
10	Pallichal	0.04	1.24
11	Perumkadavila	1.21	16.83
12	Poovar	1.22	13.11
13	Thirupuram	0.49	4.83
14	Vellarada	0.01	0.41

1 in 50 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Athiyannoor	0.15	3.39
2	Chenkal	1.41	5.49
3	Karode	0.19	2.59
4	Karumkulam	0.23	12.37
5	Kollayil	0.20	3.61
6	Kottukal	0.20	4.24
7	Kulathoor	1.50	10.54
8	Kunnathukal	0.28	3.2
9	Neyyattinkara Municipality	3.49	17.05
10	Pallichal	0.04	1.27
11	Perumkadavila	1.23	17.05
12	Poovar	1.41	13.28
13	Thirupuram	0.55	5.25
14	Vellarada	0.01	0.46

1 in 100 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Athiyannoor	0.15	3.54
2	Chenkal	1.47	5.7
3	Karode	0.19	2.67
4	Karumkulam	0.23	12.42
5	Kollayil	0.27	3.86
6	Kottukal	0.21	6.51
7	Kulathoor	1.55	10.63
8	Kunnathukal	0.30	3.3
9	Neyyattinkara Municipality	3.68	17.32
10	Pallichal	0.04	1.27
11	Perumkadavila	1.32	17.32
12	Poovar	1.49	13.37
13	Thirupuram	0.58	5.57
14	Vellarada	0.01	0.5

1 in 200 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Athiyannoor	0.16	3.93
2	Balaramapuram	0.01	0.19
3	Chenkal	1.59	6.2
4	Karode	0.20	2.76
5	Karumkulam	0.23	12.48
6	Kollayil	0.30	4.08
7	Kottukal	0.22	7.74
8	Kulathoor	1.57	10.72
9	Kunnathukal	0.30	3.3
10	Neyyattinkara Municipality	3.94	17.94
11	Pallichal	0.04	1.32
12	Perumkadavila	1.41	17.94
13	Poovar	1.54	13.46
14	Thirupuram	0.59	5.58
15	Vellarada	0.01	0.5

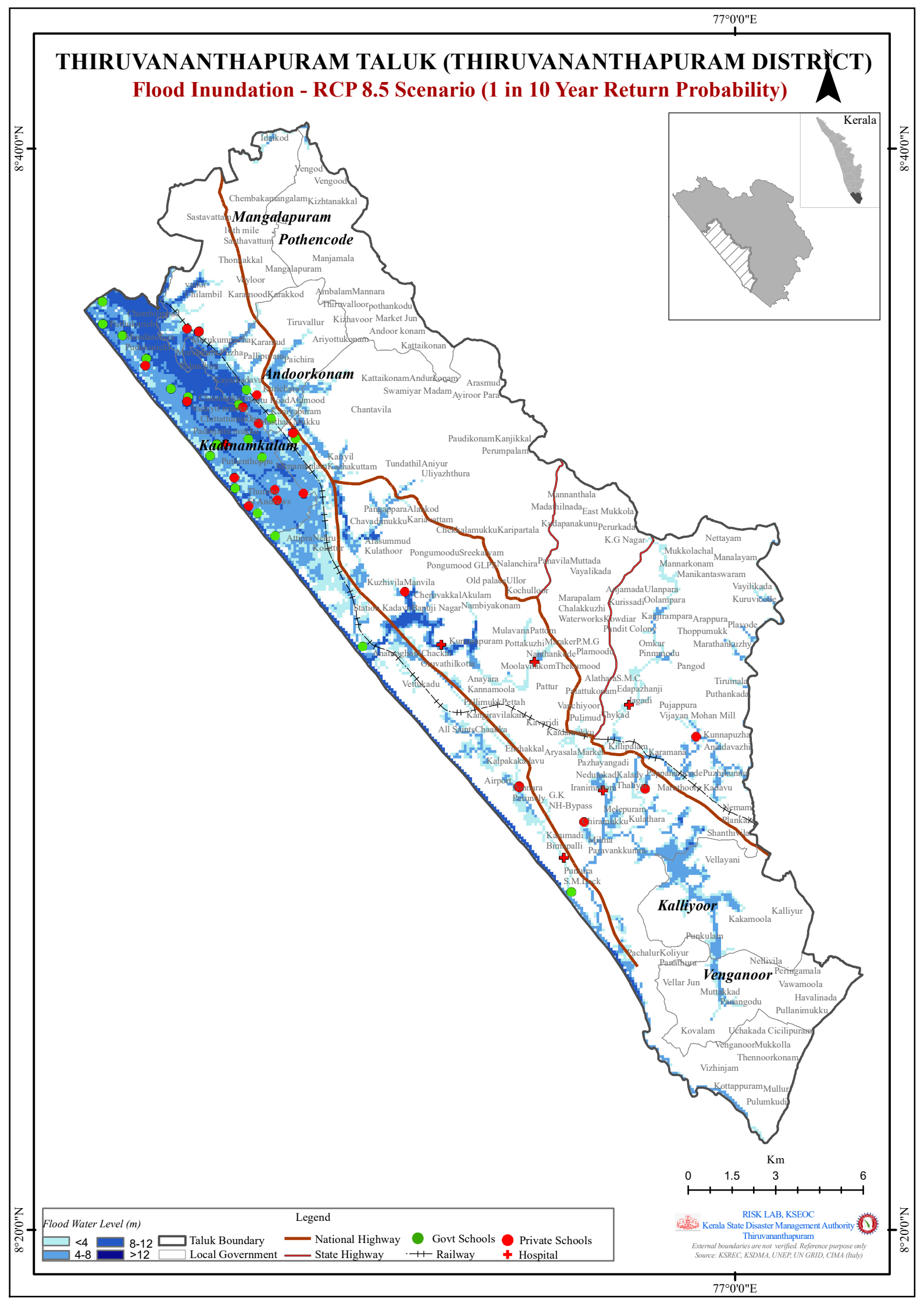
1 in 500 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Athiyannoor	0.19	4.29
2	Balaramapuram	0.01	0.32
3	Chenkal	1.71	6.8
4	Karode	0.21	2.84
5	Karumkulam	0.23	12.67
6	Kollayil	0.32	4.36
7	Kottukal	0.22	8.69
8	Kulathoor	1.66	10.8
9	Kunnathukal	0.30	3.4
10	Neyyattinkara Municipality	4.18	18.42
11	Pallichal	0.05	1.32
12	Perumkadavila	1.44	18.42
13	Poovar	1.62	13.62
14	Thirupuram	0.60	5.58
15	Vellarada	0.01	0.55

THIRUVANANTHAPURAM DISTRICT						
NEYYATINKARA 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
Kunnathukal						
School						
L. M. S. L. P. S Kottaikal	✓	✓	✓	✓	✓	✓

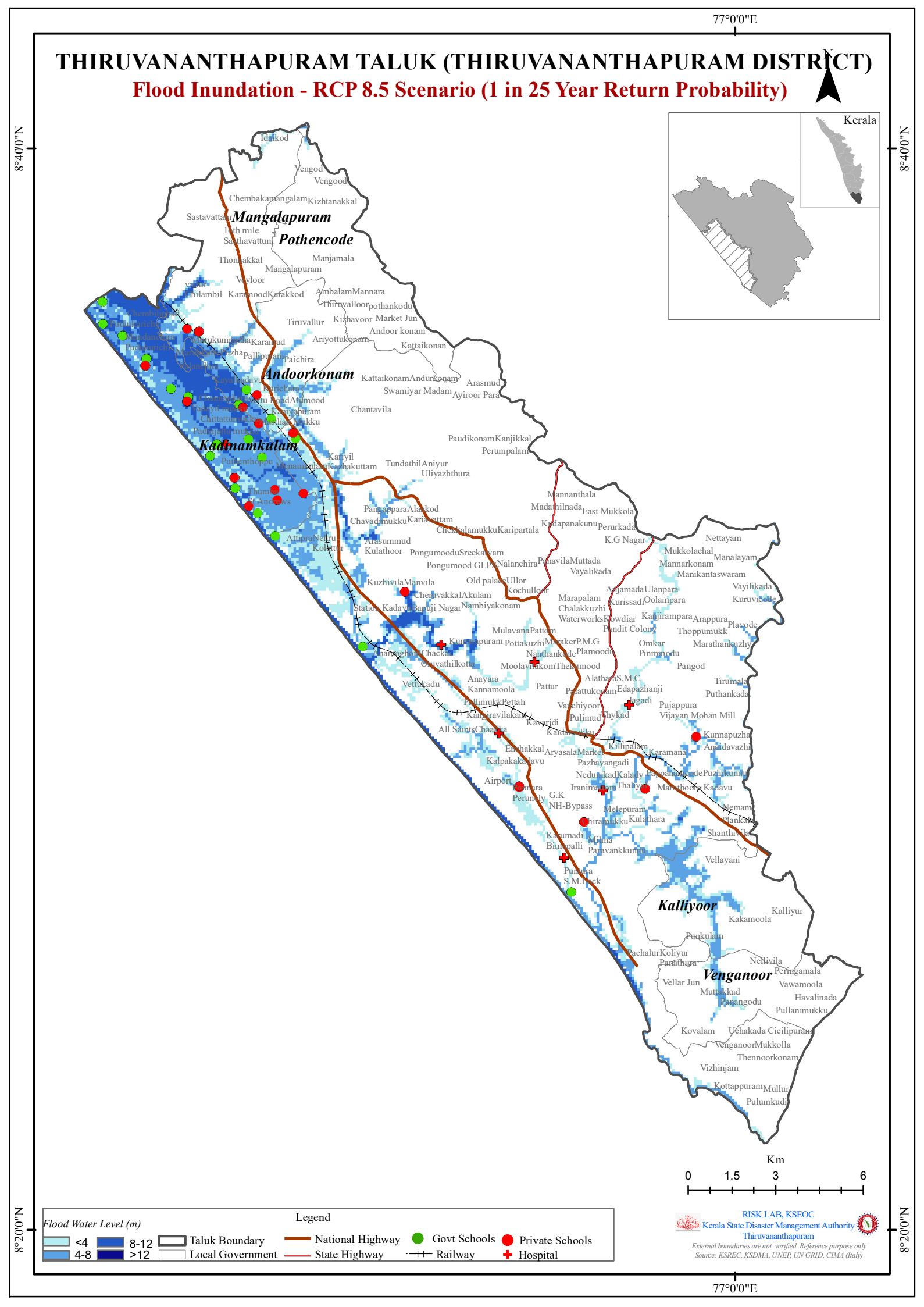
THIRUVANANTHAPURAM TALUK (THIRUVANANTHAPURAM DISTRICT)

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



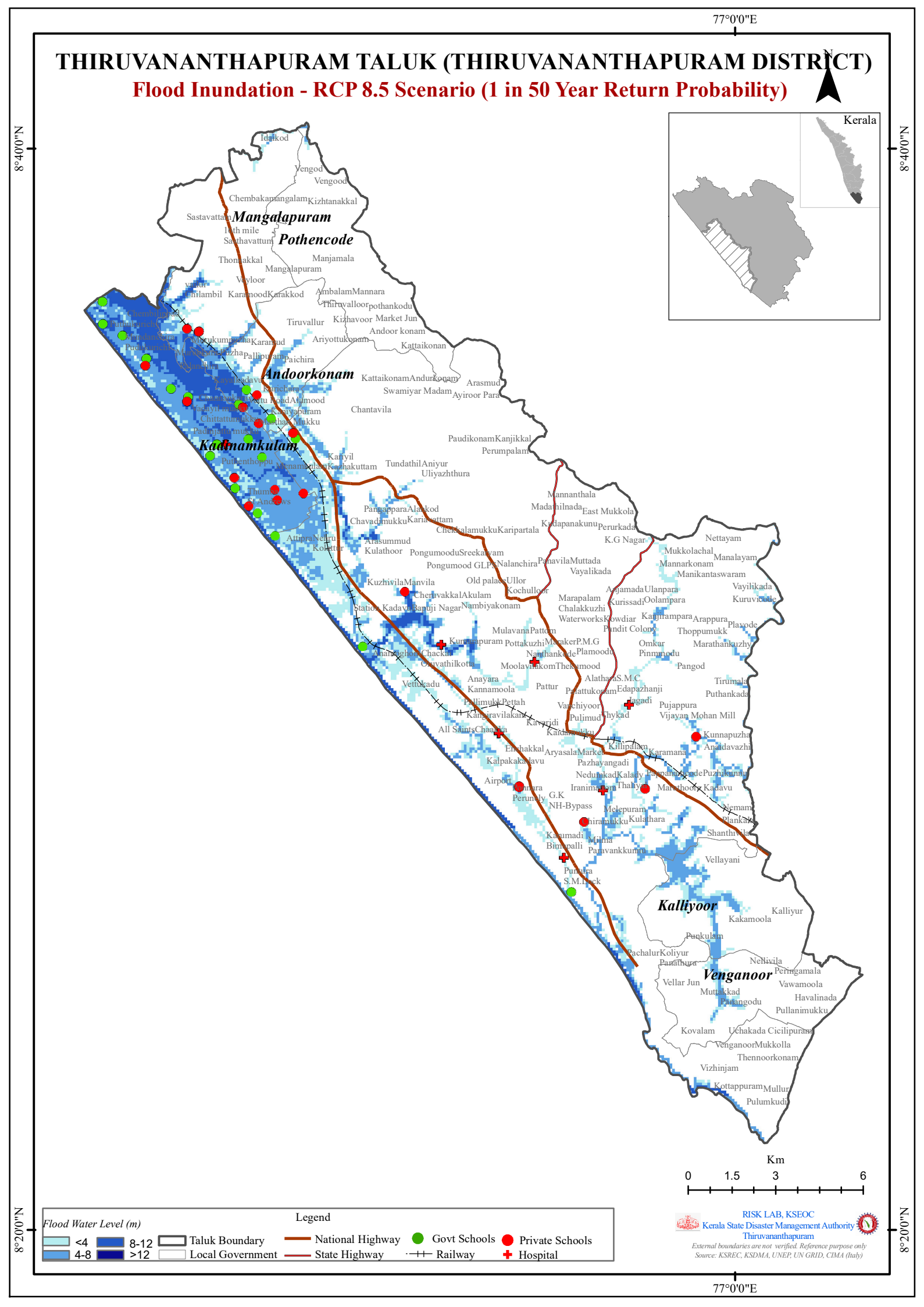
THIRUVANANTHAPURAM TALUK (THIRUVANANTHAPURAM DISTRICT)

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



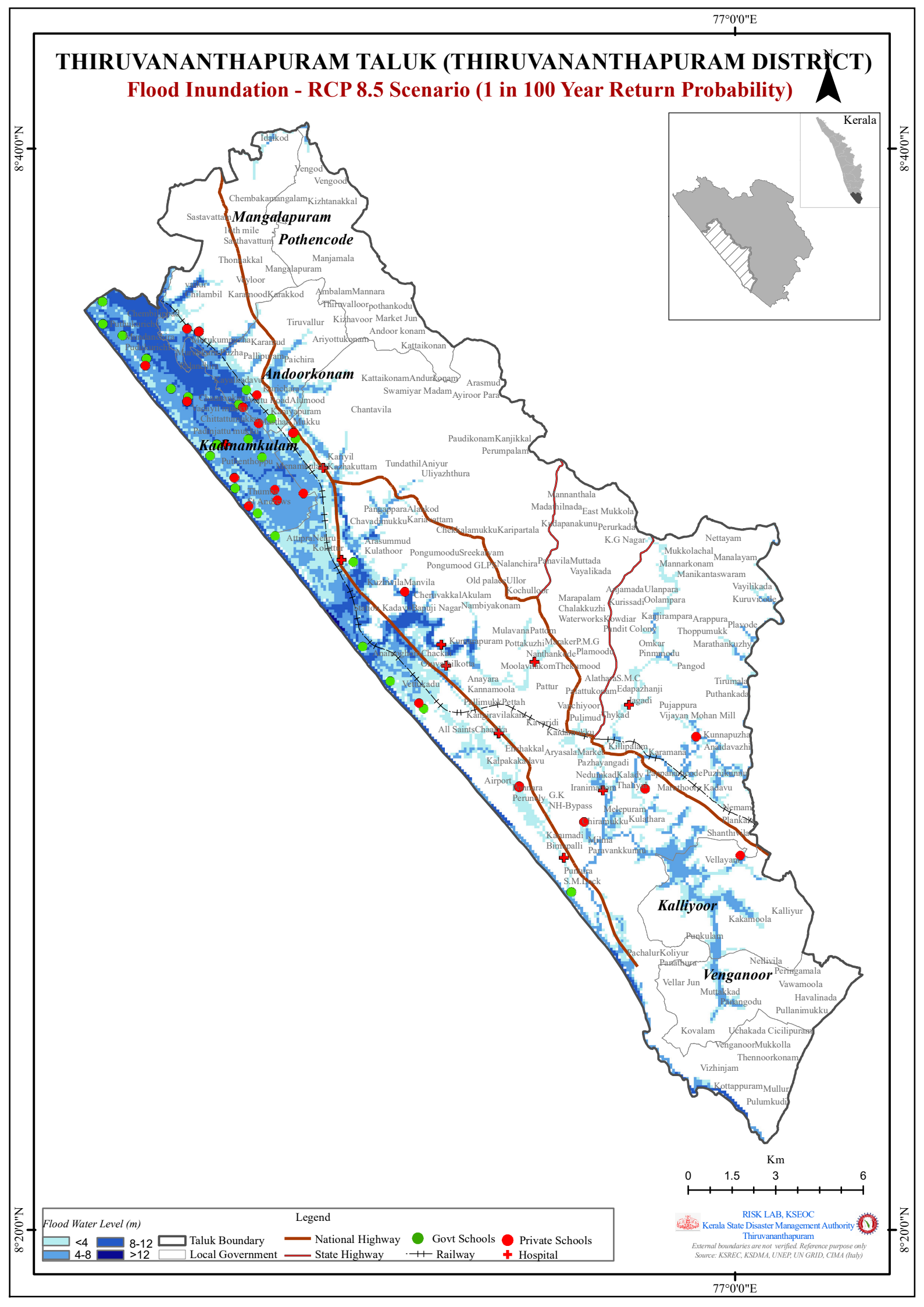
THIRUVANANTHAPURAM TALUK (THIRUVANANTHAPURAM DISTRICT)

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



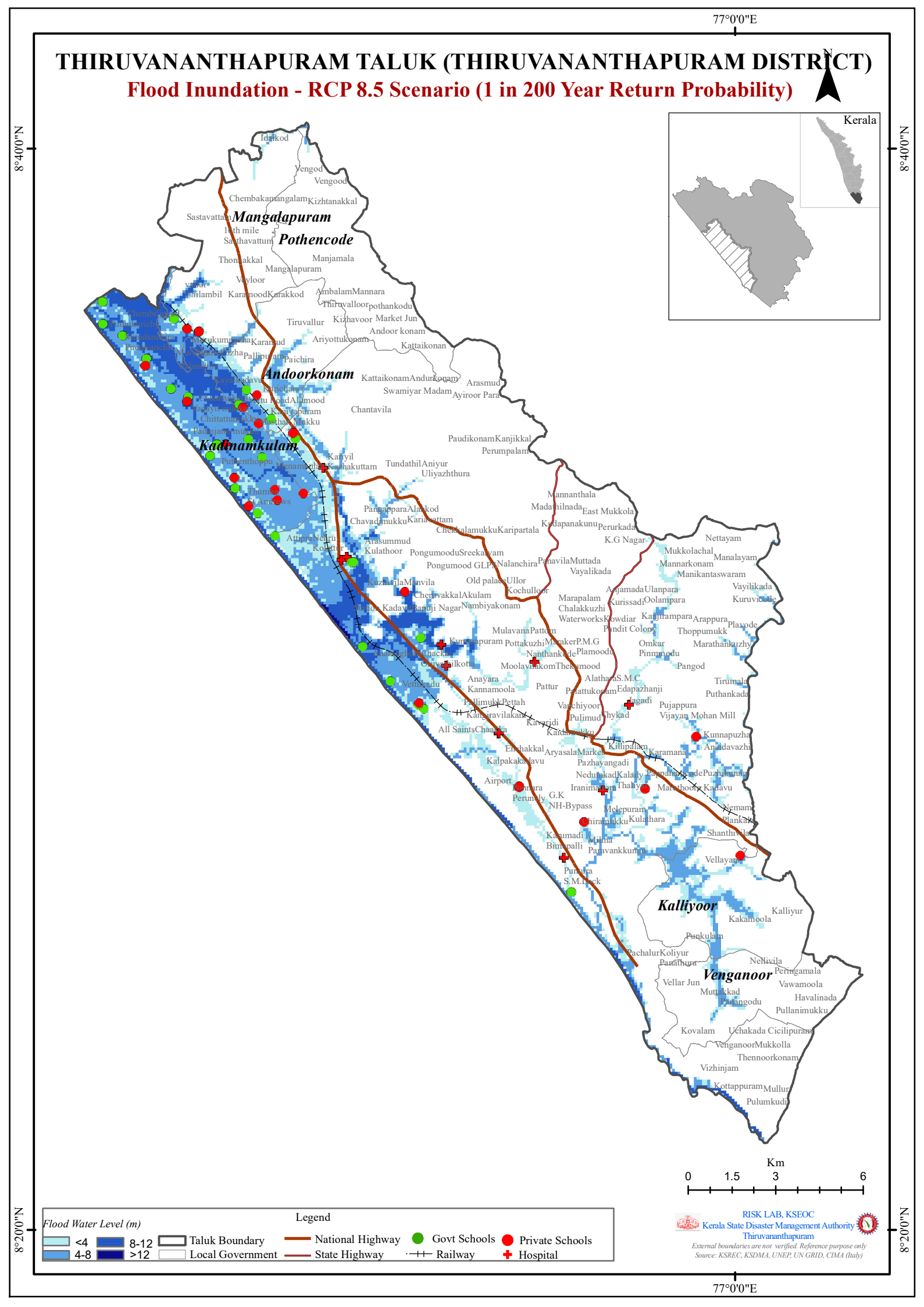
THIRUVANANTHAPURAM TALUK (THIRUVANANTHAPURAM DISTRICT)

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



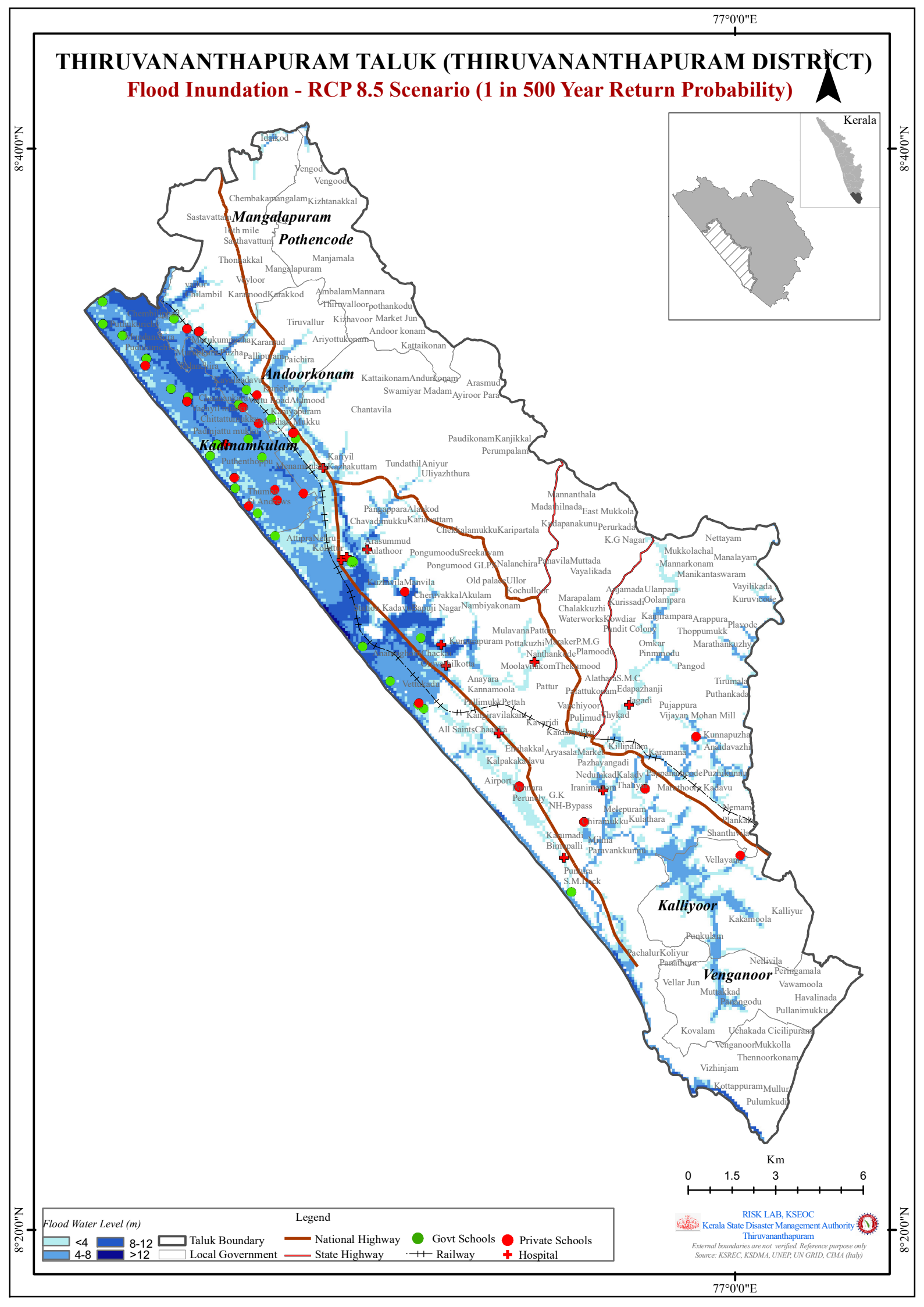
THIRUVANANTHAPURAM TALUK (THIRUVANANTHAPURAM DISTRICT)

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



THIRUVANANTHAPURAM TALUK (THIRUVANANTHAPURAM DISTRICT)

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



THIRUVANANTHAPURAM DISTRICT

THIRUVANANTHAPURAM TALUK

1 in 10 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Andoorkonam	5.00	12.58
2	Kadinamkulam	19.76	14.11
3	Kalliyoor	2.67	6.78
4	Mangalapuram	2.81	12.45
5	Pothencode	0.10	3.32
6	Thiruvananthapuram Corporation	29.40	13.66
7	Venganoor	0.59	4.37

1 in 25 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Andoorkonam	5.11	12.79
2	Kadinamkulam	19.80	14.27
3	Kalliyoor	2.86	7.05
4	Mangalapuram	2.93	12.73
5	Pothencode	0.10	3.98
6	Thiruvananthapuram Corporation	31.30	13.8
7	Venganoor	0.75	5.55

1 in 50 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Andoorkonam	5.13	12.95
2	Kadinamkulam	19.81	14.4
3	Kalliyoor	2.97	7.19
4	Mangalapuram	2.99	12.92
5	Pothencode	0.10	4.23
6	Thiruvananthapuram Corporation	32.76	13.92
7	Venganoor	0.87	6.17

1 in 100 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Andoorkonam	5.21	13.06
2	Kadinamkulam	19.82	14.48
3	Kalliyoor	3.78	7.99
4	Mangalapuram	3.05	13.06
5	Pothencode	0.11	4.79
6	Thiruvananthapuram Corporation	37.28	19.26
7	Venganoor	0.89	6.52

1 in 200 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Andoorkonam	5.28	13.18
2	Kadinamkulam	19.83	14.57
3	Kalliyoor	3.82	8
4	Mangalapuram	3.11	13.2
5	Pothencode	0.11	5.37
6	Thiruvananthapuram Corporation	39.03	21.26
7	Venganoor	0.90	6.7

1 in 500 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Andoorkonam	5.34	13.27
2	Kadinamkulam	19.84	14.65
3	Kalliyoor	3.90	8.08
4	Mangalapuram	3.20	13.31
5	Pothencode	0.13	6.38
6	Thiruvananthapuram Corporation	40.20	22.37
7	Venganoor	0.97	7.28

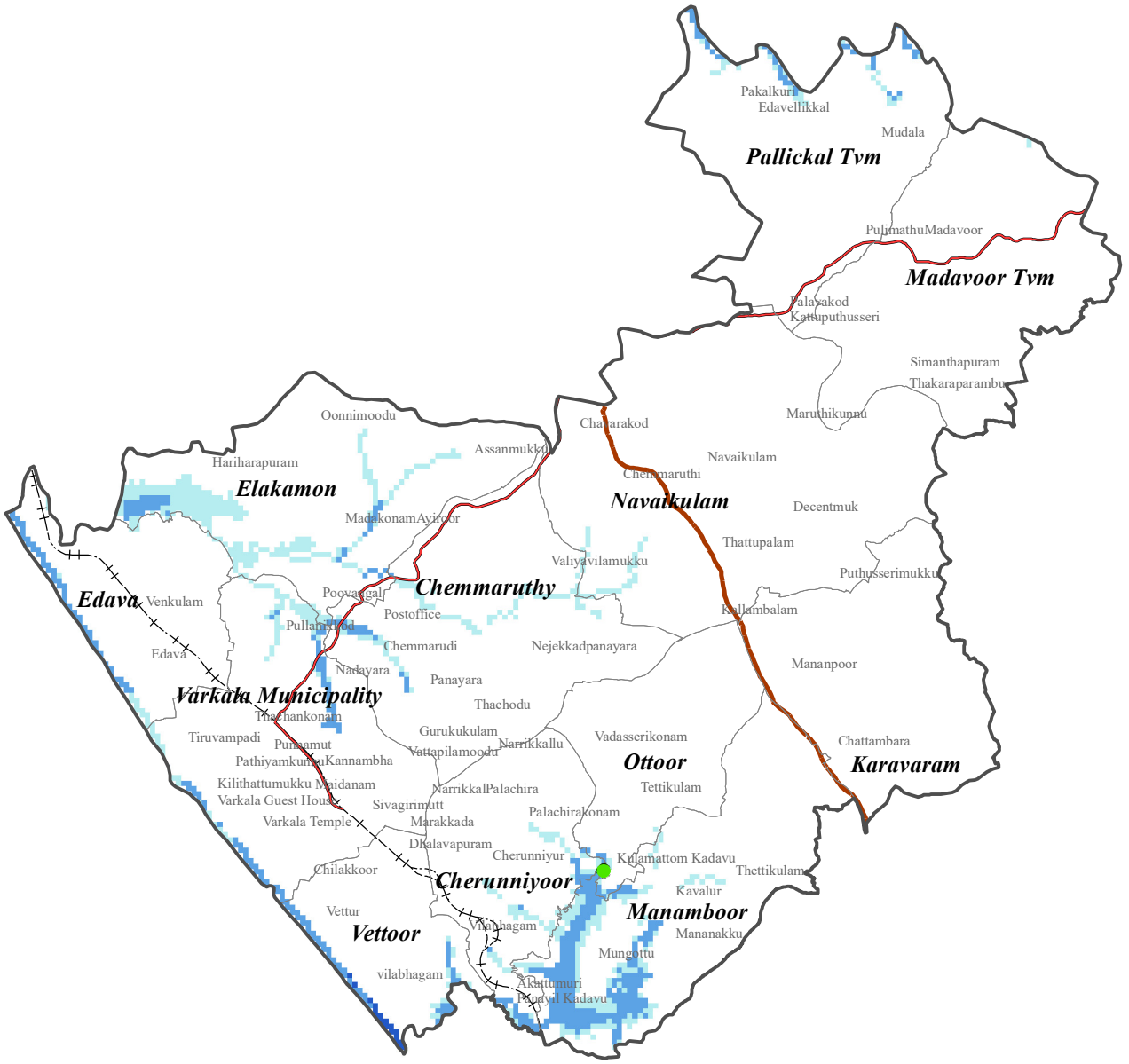
THIRUVANANTHAPURAM DISTRICT						
THIRUVANANTHAPURAM TALUK						
Name of exposed Hospital/School (LSG)	**Return Probability (Climate Change Scenario - RCP 8.5)**					
	1 in 10 Year	1 in 25 Year	1 in 50 Year	1 in 100 Year	1 in 200 Year	1 in 500 Year
Andoorkonam						
School						
Govt. L. P. S. Karichara	✓	✓	✓	✓	✓	✓
Govt. U. P. S. Kaniyapuram	✓	✓	✓	✓	✓	✓
Muslim Girls H. S. S. Kaniyapuram	✓	✓	✓	✓	✓	✓
Kadinamkulam						
Hospital						
CHC Puthenthopu	✓	✓	✓	✓	✓	✓
School						
B. P. M. U. P. S. Vettuthura	✓	✓	✓	✓	✓	✓
G.L.P.S Channankara-Kadinamkulam	✓	✓	✓	✓	✓	✓
G.U.P.S Kattaikonam-Kazhakuttom	✓	✓	✓	✓	✓	✓
Govt. L. P. S. Channankara	✓	✓	✓	✓	✓	✓
Govt. L. P. S. Cheramanthuruthu	✓	✓	✓	✓	✓	✓
Govt. L. P. S. Kadinamkulam	✓	✓	✓	✓	✓	✓
Govt. L. P. S. Menamkulam	✓	✓	✓	✓	✓	✓
Govt. L. P. S. Puthenthope	✓	✓	✓	✓	✓	✓
Govt. L. P. S. Thumba	✓	✓	✓	✓	✓	✓
S. K. V. L. P. S. Kadinamkulam	✓	✓	✓	✓	✓	✓
St. Michael'S H S S Kadinamkulam	✓	✓	✓	✓	✓	✓
St. Vincent`S H. S. S. Kaniyapuram	✓	✓	✓	✓	✓	✓
St.Andrews U. P. S. Chittattumukku	✓	✓	✓	✓	✓	✓
St.Ignatious U. P. S. Puthenthope	✓	✓	✓	✓	✓	✓
Kalliyoor						
School						
Kalliyoor				✓	✓	✓
Mangalapuram						
School						
G.L.P.S Thonnakal-Mangalapuram	✓	✓	✓	✓	✓	✓
Govt. L. P. S. Murukkumpuzha					✓	✓

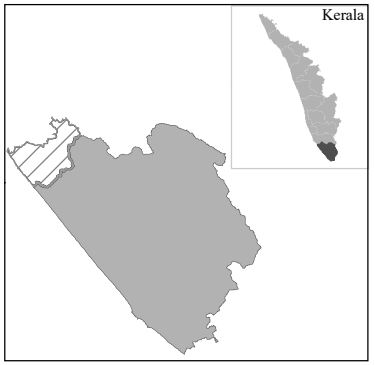
Thiruvananthapuram Corporation						
Hospital						
AJ Hospital				✓	✓	✓
Ananthapurai Hospital Private Limited		✓	✓	✓	✓	✓
CHC Iranimuttom	✓	✓	✓	✓	✓	✓
FHC Poonthura	✓	✓	✓	✓	✓	✓
Gowreesha Hospital	✓	✓	✓	✓	✓	✓
Janatha Clinic						✓
Karthika Clinic	✓	✓	✓	✓	✓	✓
KIMS Hospital	✓	✓	✓	✓	✓	✓
Lords Hospital				✓	✓	✓
TM Medical Centre					✓	✓
TSC Hospital Kazhakoottam				✓	✓	✓
School						
Ambalathara	✓	✓	✓	✓	✓	✓
G.U.P.S Kattaikonam-Kazhakuttom	✓	✓	✓	✓	✓	✓
Govt. H. S. L. P. S. Kulathoor				✓	✓	✓
Govt. H. S. S. Kulathoor					✓	✓
Govt. H. W. L. P. S. Kulathoor						✓
Govt. L. P. S. Oruvathilkotta					✓	✓
Govt. W. L. P. S. Panathura	✓	✓	✓	✓	✓	✓
Karamana	✓	✓	✓	✓	✓	✓
Pallithura H S S	✓	✓	✓	✓	✓	✓
Pongumoodu	✓	✓	✓	✓	✓	✓
Poojappura	✓	✓	✓	✓	✓	✓
Shambuvattom				✓	✓	✓
Sreevaraham	✓	✓	✓	✓	✓	✓
St. Joseph`S LPS Kochuveli				✓	✓	✓
St. Mary`S H. S. S. Vettukad				✓	✓	✓
St. Mary`S L. P. S. Vettukadu					✓	✓
St.Antony`S L. P. S. Vadakkumbhagam	✓	✓	✓	✓	✓	✓
St.Thomas L. P. S. Veli	✓	✓	✓	✓	✓	✓

76°40'0"E

VARKALA TALUK (THIRUVANANTHAPURAM DISTRICT)

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





N

Km
0 1 2 4

Legend

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

Taluk Boundary
Local Government
National Highway
State Highway
Railway
Govt Schools
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)

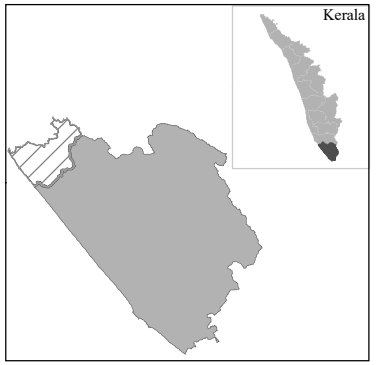
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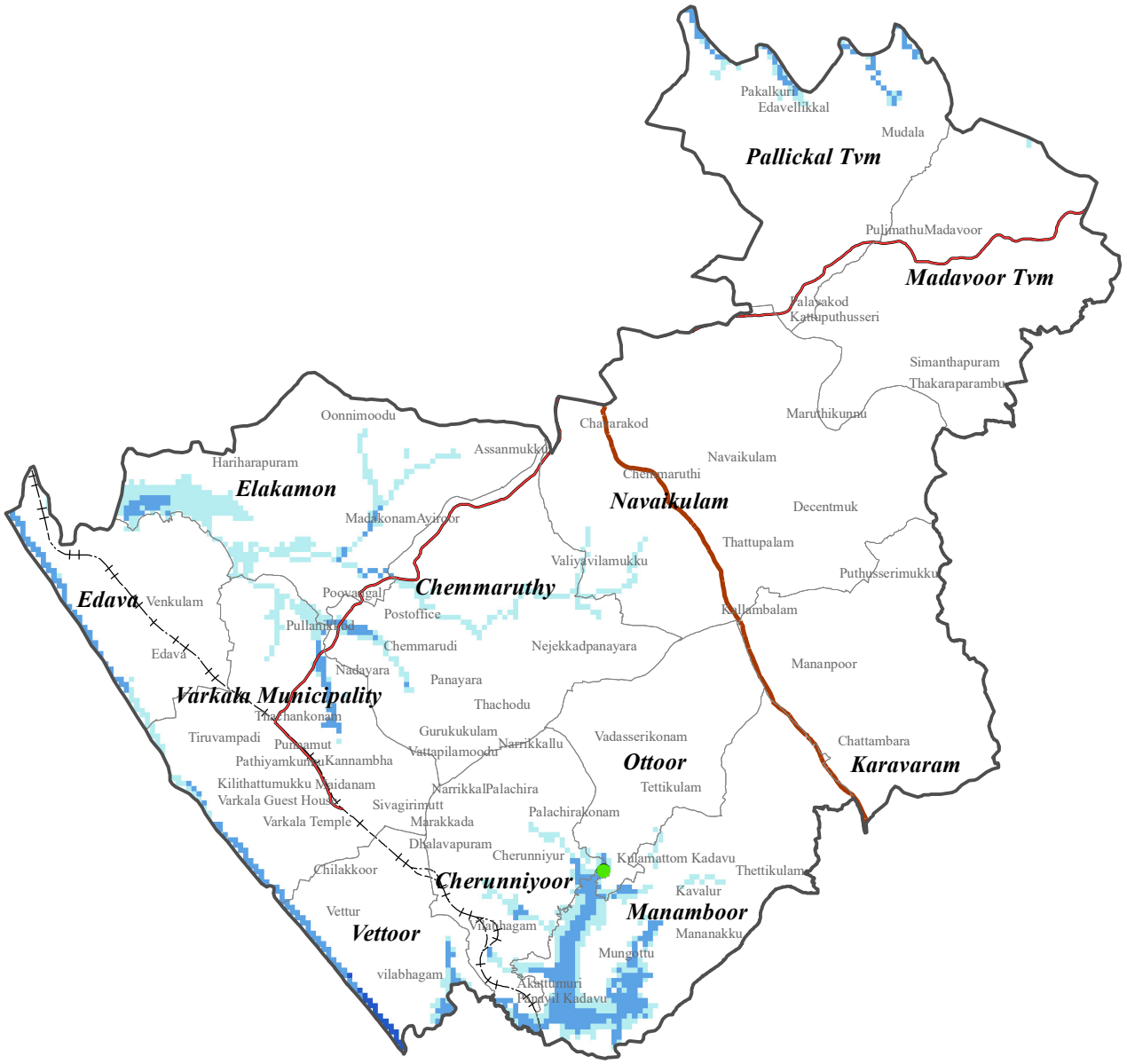
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VARKALA TALUK (THIRUVANANTHAPURAM DISTRICT)

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

N





Km
0 1 2 4

Legend

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

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

RISK LAB, KSEOC
Kerala State Disaster Management Authority
Thiruvananthapuram

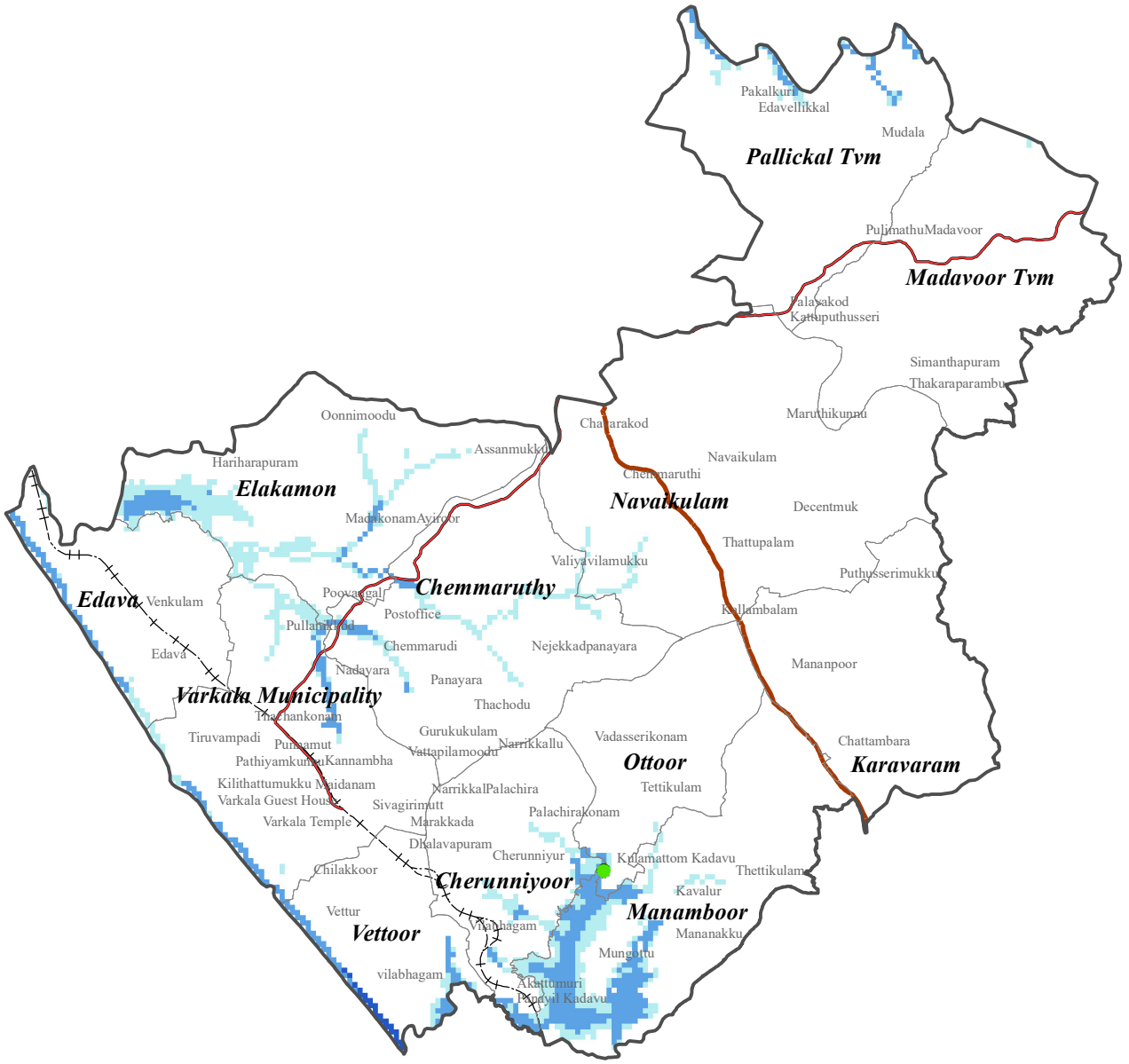
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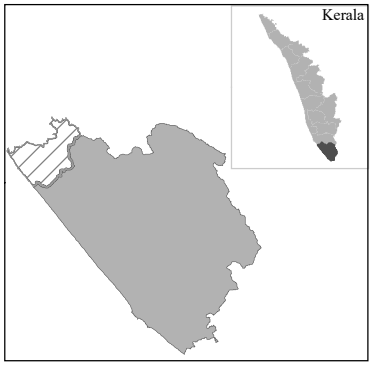
76°40'0"E

76°40'0"E

VARKALA TALUK (THIRUVANANTHAPURAM DISTRICT)

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





N

Km
0 1 2 4

Legend

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

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

RISK LAB, KSEOC
Kerala State Disaster Management Authority
Thiruvananthapuram

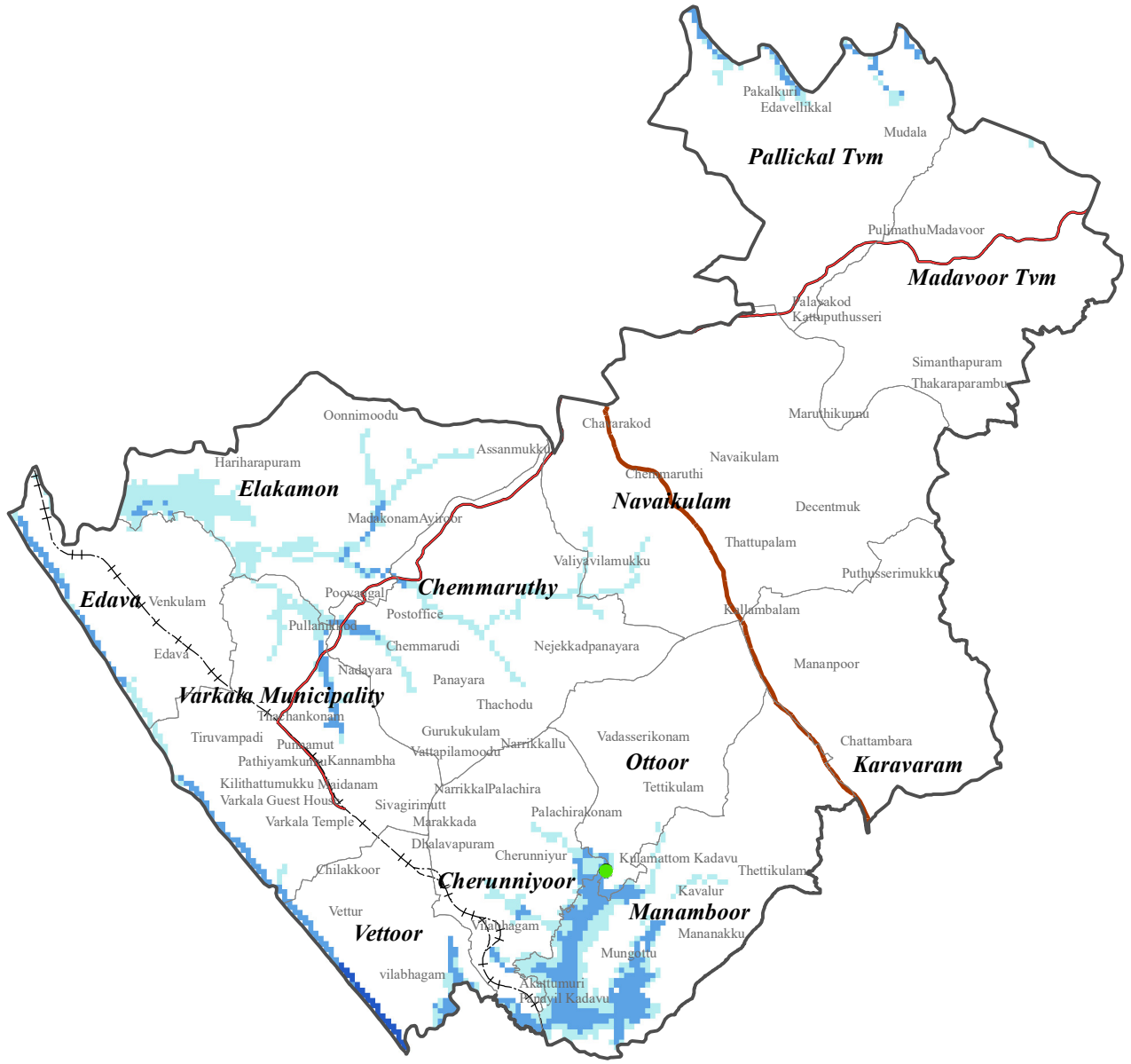
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Source: KSREC, KSDMA, UNEP, UN GRID, CIMA (Italy)

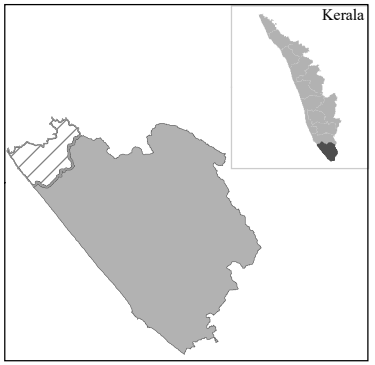
76°40'0"E

76°40'0"E

VARKALA TALUK (THIRUVANANTHAPURAM DISTRICT)

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





N

Km
0 1 2 4

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)

Legend

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

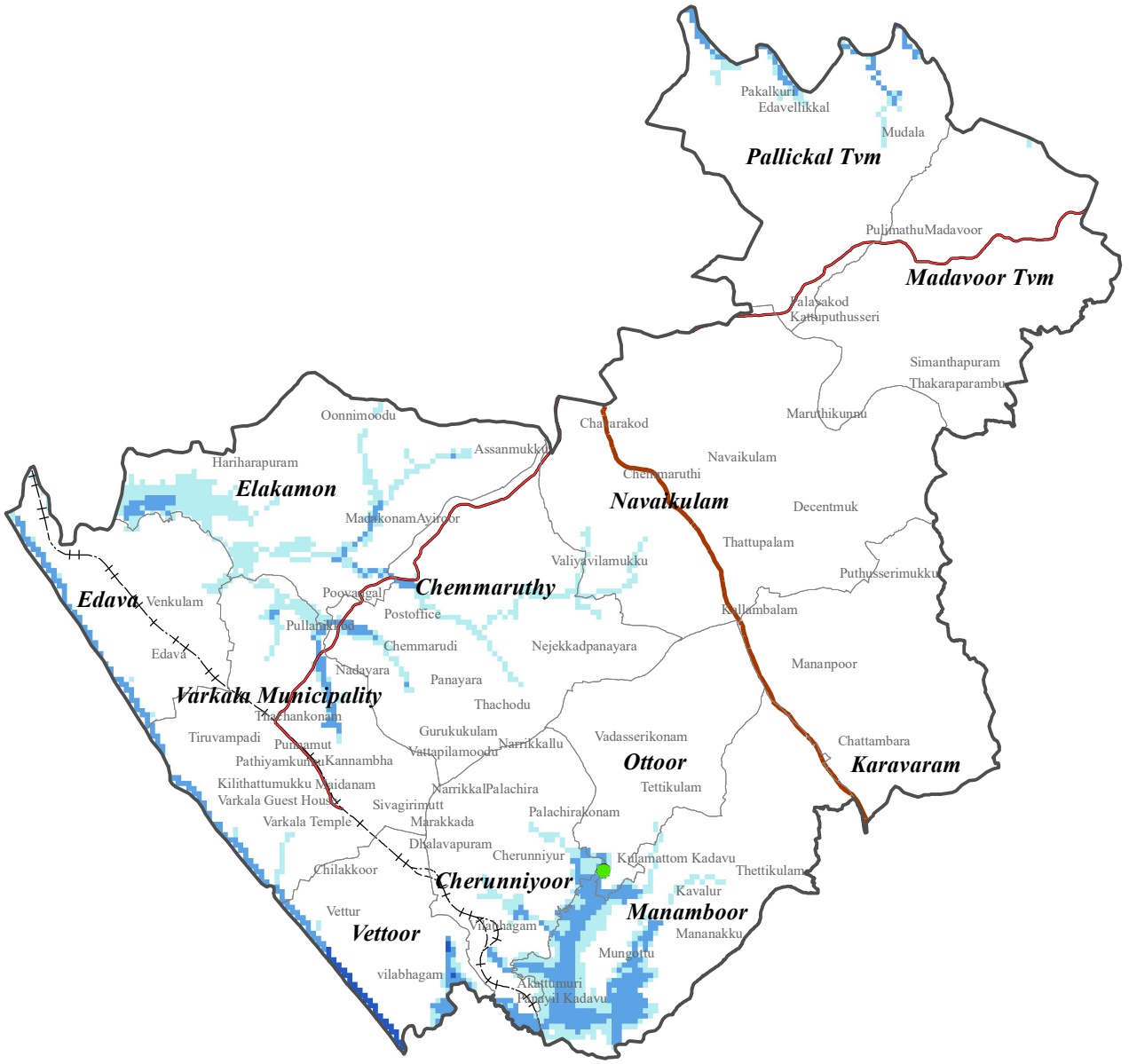
Taluk Boundary
Local Government
National Highway
State Highway
Railway
Govt Schools
Private Schools
Hospital

76°40'0"E

76°40'0"E

VARKALA TALUK (THIRUVANANTHAPURAM DISTRICT)

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



N

Km
0 1 2 4

Legend

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

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

RISK LAB, KSEOC
Kerala State Disaster Management Authority
Thiruvananthapuram

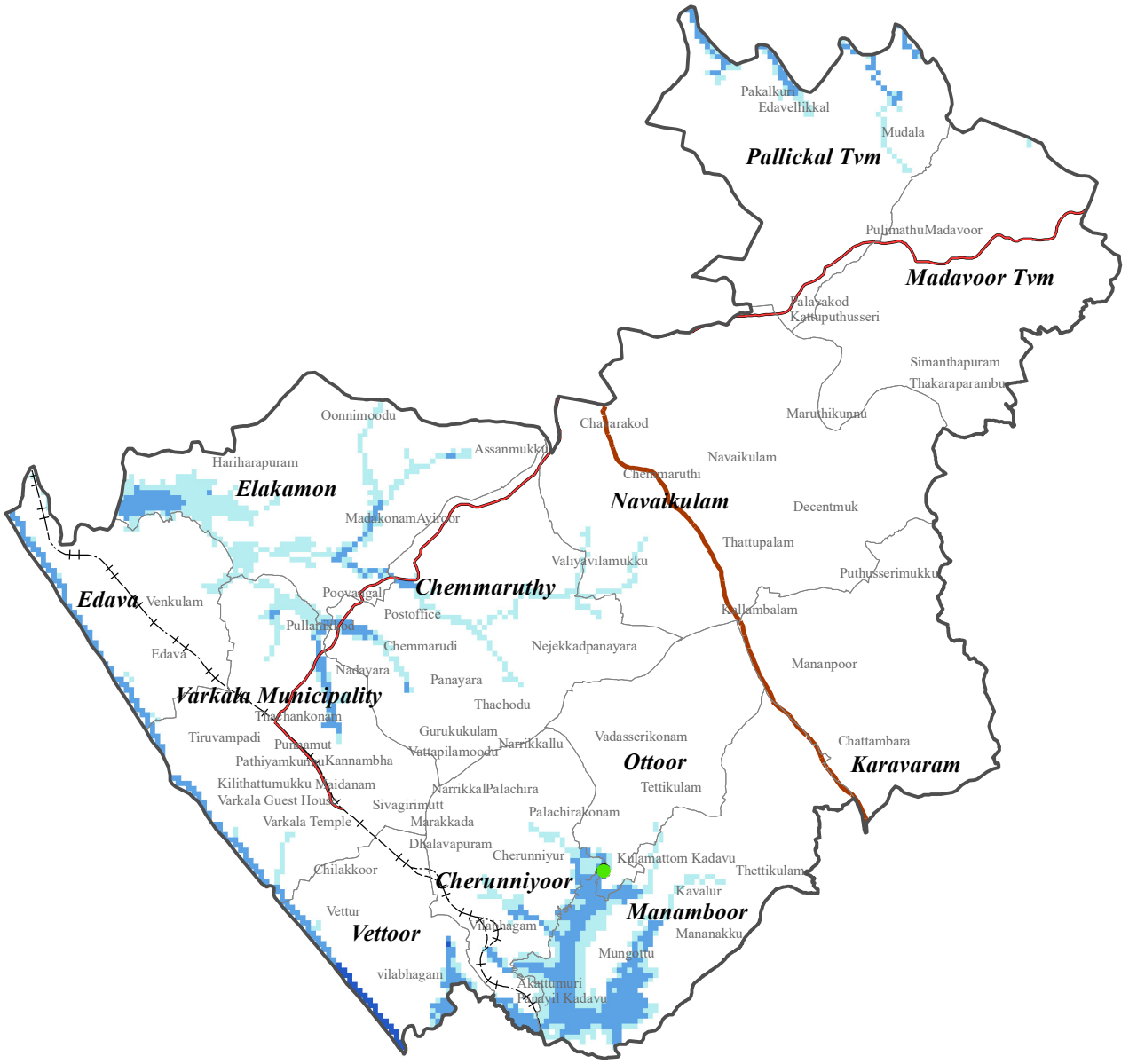
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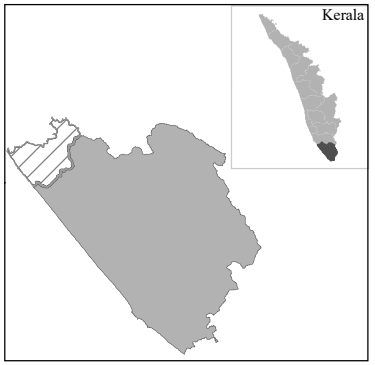
76°40'0"E

76°40'0"E

VARKALA TALUK (THIRUVANANTHAPURAM DISTRICT)

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





N

Km
0 1 2 4

Legend

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

Taluk Boundary
Local Government
National Highway
State Highway
Railway
Govt Schools
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)

76°40'0"E

THIRUVANANTHAPURAM DISTRICT

VARKALA TALUK

1 in 10 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Chemmaruthy	0.82	5.59
2	Cherunniyoor	0.73	5.03
3	Edava	0.57	4.6
4	Elakamon	2.33	3.55
5	Madavoor Tvm	0.02	0.72
6	Manamboor	3.14	5.44
7	Navaikulam	0.24	1.47
8	Ottoor	0.13	5.03
9	Pallickal Tvm	0.62	5.8
10	Varkala Municipality	1.10	5.89
11	Vettoor	0.70	9.29

1 in 25 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Chemmaruthy	0.90	5.9
2	Cherunniyoor	0.86	5.16
3	Edava	0.58	5
4	Elakamon	2.44	3.97
5	Madavoor Tvm Kkd	0.02	0.91
6	Manamboor	3.34	5.82
7	Navaikulam	0.24	1.55
8	Ottoor	0.13	5.16
9	Pallickal Tvm Pta	0.67	6.1
10	Varkala Municipality	1.13	6.13
11	Vettoor	0.76	9.99

1 in 50 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Chemmaruthy	1.00	6.22
2	Cherunniyoor	1.02	5.72
3	Edava	0.60	5.09
4	Elakamon	2.57	4.35
5	Madavoor Tvm	0.02	1.03
6	Manamboor	3.91	6.78
7	Navaikulam	0.24	1.73
8	Ottoor	0.16	5.88
9	Pallickal Tvm	0.69	6.8
10	Varkala Municipality	1.17	6.35
11	Vettoor	0.80	10.45

1 in 100 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Chemmaruthy	1.02	6.62
2	Cherunniyoor	1.10	6.27
3	Edava	0.61	5.16
4	Elakamon	2.76	4.83
5	Madavoor Tvm	0.02	1.15
6	Manamboor	3.98	7.12
7	Navaikulam	0.25	1.88
8	Ottoor	0.18	6.2
9	Pallickal Pta	0.71	7.4
10	Varkala Municipality	1.21	6.85
11	Vettoor	0.82	10.54

1 in 200 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Chemmaruthy	1.05	6.95
2	Cherunniyoor	1.15	7.2
3	Edava	0.71	5.34
4	Elakamon	2.93	5.52
5	Madavoor Tvm	0.02	1.33
6	Manamboor	4.13	7.36
7	Navaikulam	0.25	2.07
8	Ottoor	0.18	6.42
9	Pallickal Tvm	0.80	8
10	Varkala Municipality	1.39	7.93
11	Vettoor	0.87	10.88

1 in 500 YEAR (CC – RCP 8.5)

Sl No	LSG	Flood Inundation Area (Km2)	Max. Flood Level (m)
1	Chemmaruthy	1.08	7.29
2	Cherunniyoor	1.18	7.41
3	Edava	0.73	5.66
4	Elakamon	3.03	5.92
5	Madavoor Tvm	0.02	1.56
6	Manamboor	4.20	7.57
7	Navaikulam	0.25	2.36
8	Ottoor	0.19	6.64
9	Pallickal Tvm	0.93	8.7
10	Varkala Municipality	1.42	8.49
11	Vettoor	0.89	11.21

THIRUVANANTHAPURAM DISTRICT						
VARKALA 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
Ottoor						
School						
St.Sebastian'S L P S Moongode	✓	✓	✓	✓	✓	✓