

# **ANNEXURE-2**

## **TABLES**

**Table-1: Comparison of CZMP 2011 and draft CZMP based on CRZ Notification 2019 in Malappuram District**

Local Bodies under CRZ (CZMP 2011)	Local Bodies under CRZ (CZMP 2019)	Remarks
<p><b>Corporation: Nil</b></p> <p><b>Municipalities: (5)</b> Parappanangadi, Tirurangadi, Tanur, Tirur, Ponnani</p> <p><b>Grama Panchayats: (18)</b> Vazhakkad, Vazhayur, Chelambra, Vallikkunnu, Thenhipalam, Moonniyur, Tanalur, Nirmaruthur, Cheriyamundam, Vettom, Thalakkad, Triprangode, Mangalam, Purathur, Kalady, Maranchery, Veliyancode and Perumpadappu</p>	<p><b>Corporation: Nil</b></p> <p><b>Municipalities: (5)</b> Parappanangadi, Tirurangadi, Tanur, Tirur, Ponnani</p> <p><b>Grama Panchayats: (18)</b> Vazhakkad, Vazhayur, Chelambra, Vallikkunnu, Thenhipalam, Moonniyur, Tanalur, Nirmaruthur, Cheriyamundam, Vettom, Thalakkad, Triprangode, Mangalam, Purathur, Kalady, Maranchery, Veliyancode and Perumpadappu</p> <p><b>Other Legally Designated urban area: (4)</b> Vazhakkad, Vazhayur, Chelembra, Thenhipalam.</p>	<ul style="list-style-type: none"> <li>➤ Coastal Villages such as Nirmaruthur, Vettom and Mangalam which are parts of Nirmaruthur Panchayat, Vettom Panchayat and Mangalam Panchayat respectively are categorized into CRZ IIIA based on the guideline of CZMP Preparation as per CRZ Notification 2019. In such village, NDZ has been redrawn as 50 meters from the HTL against 200 meters stipulated in the previous CRZ Notification, 2011.</li> <li>➤ As per CRZ Notification 2019, 50m NDZ/CRZ limit (for tidal water bodies) has been demarcated instead of 100m in the previous notification, however, retain width of the creek less than 50m.</li> <li>➤ The islands are buffered with 50m or width of creek whichever is less and 20m CRZ line landward of HTL is also depicted in the map which will be considered only after IIMP is implemented.</li> <li>➤ 44 islands are listed as per the CRZ 2019 Notification.</li> <li>➤ Other legally designated urban areas as per the CRZ Notification 2019, the Panchayats that meet the criteria of built-up area and developmental infrastructure are categorised as CRZ II.</li> </ul>

**Table-2: Village-wise population statistics for identifying the CRZ-III A category – Malappuram District.**

<b>SL. No:</b>	<b>Village</b>	<b>Population</b>	<b>Area (Sq.km)</b>	<b>Population density/Sq.km</b>	<b>Category</b>	<b>Grama Panchayat</b>	<b>Remarks/Source</b>
1	Vallikkunnu	25448	13.45	1892.04	CRZ III B	Vallikkunnu	Census 2011, Part B
2	Ariyallur	22558	11.89	1897.22	CRZ III B	Vallikkunnu	Census 2011, Part B
3	Niramaruthur	29846	10.03	2975.67	CRZ III A	Niramaruthur	Census 2011, Part B
4	Vettom	37456	15.13	2475.61	CRZ III A	Vettom	Census 2011, Part B
5	Mangalam	33442	12.12	2759.24	CRZ III A	Mangalam	Census 2011, Part B
6	Purathur	31915	19.15	1666.58	CRZ III B	Purathur	Census 2011, Part B
7	Veliyankode	32554	15.21	2140.30	CRZ III B	Veliyankode	Census 2011, Part B
8	Perumpadappa	29766	14.93	1993.70	CRZ III B	Perumpadappa	Census 2011, Part B

**Table-3: CRZ details in Local bodies of Malappuram District**

Localbody	HTL Length (km)		CRZ IA (km <sup>2</sup> )				CRZ IB (km <sup>2</sup> )	CRZ II (km <sup>2</sup> )		CRZ III (km <sup>2</sup> )				CRZ IVB (km <sup>2</sup> )
	Along Sea Coast	Along Creek	Archaeological Heritage Site	Turtle Nesting Ground	Mangroves	50m MBZ (km <sup>2</sup> )		Along Sea Coast	Along Creek	NDZ		IIIA (50-500m)	IIIB (200-500m)	
										Along Sea Coast	Along Creek			
Vazhakkad		2.28						0.117532					0.309337	
Vazhayoor		12.06			0.004824		0.112401	0.534677					1.492551	
Chelambra		8.24			0.065631	0.05175	0.054306	0.235227					0.030885	
Vallikkunnu	5.27	26.17		0.015458	0.177433	0.538065	0.290546		0.981485	1.061908		1.438037	1.342524	
Thenhipalam		8.56			0.002185		0.005228	0.35033					0.442281	
Moonniyur		1.37					0.000248			0.106855			0.016328	
Parappanangadi Municipality	7.59	1.39		0.077033			0.174468	3.410235	0.106934				0.025013	
Tirurangadi Municipality		0.37					0.003199		0.00777					
Tanur Municipality	8.89	24.7			0.031225		0.397581	3.846231	0.405501				0.823449	
Tanalur		4.84					0.000144			0.121047		0.143179	0.060331	
Cheriyamundam		0.28					0.000119			0.015217			0.001584	
Tirur Municipality		20.59			0.056122		0.060868		0.702957				0.281444	
Niramaruthur	3.21	9.70					0.096741			0.161117	0.225591	1.389242	0.114829	
Thalakkad		3.79			0.070602	0.020917	0.021935			0.201632			0.128023	
Vettom	4.99	26.13			0.087833	0.142722	0.366081			0.251613	0.91949	2.208415	0.564046	

Mangalam	3.68	18.68			0.115124	0.057896	0.305833			0.183775	0.669425	1.59473		0.760289
Tripangode		1.36					0.180249				0.057061			0.099705
Kalady		1.20					0.101573				0.061337			0.210321
Purathur	5.54	28.82			0.004785		1.424771			0.985674	0.901495		0.944677	4.310609
Ponnani Municipality	6.34	40.42			0.016701		1.316674	2.886734	1.109244					3.400401
Maranchery		7.60			0.000032		0.007581				0.364972			0.507232
Veliyancode	1.95	17.11			0.008494		0.234222			0.358265	0.428224		0.635788	0.107709
Perumpadappu	2.94	5.07					0.068874			0.578071	0.077438		0.831284	0.038501
<b>Sub Total</b>	<b>50.40</b>	<b>270.73</b>			<b>0.092491</b>	<b>0.640991</b>	<b>0.81135</b>	<b>5.223642</b>	<b>10.1432</b>	<b>3.570172</b>	<b>3.50</b>	<b>5.211692</b>	<b>5.192387</b>	<b>3.992965</b>
<b>Total</b>	<b>347.08</b>				<b>0.733482</b>		<b>0.81135</b>	<b>5.223642</b>	<b>13.713372</b>		<b>8.711692</b>		<b>5.192387</b>	<b>3.992965</b>

**Table-4: CRZ details in Villages of Malappuram District**

Local body	Village	HTL Length (km)		CRZ IA (Km <sup>2</sup> )			50m MBZ (Km <sup>2</sup> )	CRZ IB (Km <sup>2</sup> )	CRZ II (Km <sup>2</sup> )		CRZ III (Km <sup>2</sup> )				CRZ IVB (Km <sup>2</sup> )
		Along Sea Coast	Along Creek	Archaeological Heritage Site	Turtle Nesting Ground	Mangroves			Along Sea Coast	Along Creek	NDZ		IIIA (50-500m)	IIIB (200-500m)	
											Along Sea Coast	Along Creek			
Vazhakkad	Vazhakkad Village		2.28						0.117532					0.309337	
Vazhayoor	Vazhayoor Village		12.06			0.004824		0.112401	0.534677					1.492551	
Chelambra	Chelembra Village		8.24			0.065631	0.05175	0.054306	0.235227					0.030885	
Vallikkunnu	Vallikkunnu Village	1.70	18.80			0.177433	0.538065	0.217099			0.308884	0.759632		0.383664	0.998355
	Ariyallur Village	3.57	7.37		0.015458			0.073447			0.672601	0.302276		1.054373	0.344169
Thenhipalam	Thenhippalam Village		8.56			0.002185		0.005228	0.35033					0.442281	
Moorniyur	Moorniyur Village		1.37					0.000248				0.106855		0.016328	
Parappanangadi Municipality	Neduva Village		0.42					0.000056	0.056181					0.007703	
	Parappanangadi Village	7.59	0.97		0.077033			0.174412	3.410235	0.050753				0.01731	
Tirurangadi Municipality	Tirurangadi Village		0.37					0.003199	0.00777						
Tanur Municipality	Pariyapuram Village	2.15	14.40			0.023969		0.224199	0.718716	0.365853				0.716842	
	Tanur Village	6.74	10.30			0.007256		0.173382	3.127515	0.039648				0.106607	
Tanalur	Tanalur Village		4.84					0.000144			0.121047		0.143179	0.060331	
Cheriyamundam	Cheriyamundam Village		0.28					0.000119			0.015217			0.001584	

Tirur Municipality	Tirur Village		12.53			0.00415		0.027602		0.389345				0.154718		
	Trikkandiyur Village		8.06			0.051972		0.033266		0.313612				0.126726		
Niramaruthur	Niramaruthur Village	3.21	9.70					0.096741			0.161117	0.225591	1.389242	0.114829		
Thalakkad	Thalakkad Village		3.79			0.070602	0.020917	0.021935				0.201632		0.128023		
Vettom	Vettom Village	4.99	26.13			0.087833	0.142722	0.366081			0.251613	0.91949	2.208415	0.564046		
Mangalam	Mangalam Village	3.68	18.68			0.115124	0.057896	0.305833			0.183775	0.669425	1.59473	0.760289		
Triprangode	Triprangode Village		1.36					0.180249				0.057061		0.099705		
Kalady	Kalady Village		1.20					0.101573				0.061337		0.210321		
Purathur	Purathur Village	5.54	28.82			0.004785		1.424771			0.985674	0.901495	0.944677	4.310609		
Ponnani Municipality	Ezhuvathiruthy Village		25.65			0.003229		0.823378		0.796829				1.604413		
	Ponnani Nagaram Village	6.34	14.77			0.013472		0.493296	2.886734	0.312415				1.795988		
Maranchery	Maranchery Village		7.60			0.000032		0.007581				0.364972		0.507232		
Veliyancode	Veliyancode Village	1.95	17.11			0.008494		0.234222			0.358265	0.428224	0.635788	0.107709		
Perumpadappu	Perumpadappu Village	2.94	5.07					0.068874			0.578071	0.077438	0.831284	0.038501		
<b>Sub Total</b>		<b>50.40</b>	<b>270.73</b>			<b>0.092491</b>	<b>0.640991</b>	<b>0.81135</b>	<b>5.223642</b>	<b>10.1432</b>	<b>3.570172</b>	<b>3.50</b>	<b>5.211692</b>	<b>5.192387</b>	<b>3.992965</b>	<b>15.067392</b>
<b>Total</b>		<b>321.13</b>				<b>0.733482</b>		<b>0.81135</b>	<b>5.223642</b>	<b>13.713372</b>		<b>8.711692</b>	<b>5.192387</b>	<b>3.992965</b>	<b>15.067392</b>	

**Table- 5: List of Backwaters and Main Coastal Islands in Malappuram District**

<b>Island No.</b>	<b>Local body</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Area</b>
1	Veliyancode	10° 43' 38.803" N	75° 56' 22.520" E	0.005206
2	Veliyancode	10° 43' 41.628" N	75° 56' 22.685" E	0.000774
3	Veliyancode	10° 43' 41.755" N	75° 56' 21.439" E	0.000195
4	Veliyancode	10° 43' 42.692" N	75° 56' 22.298" E	0.000905
5	Veliyancode	10° 44' 40.060" N	75° 56' 18.814" E	0.017514
6	Ponnani Municipality, Veliyancode	10° 43' 44.442" N	75° 56' 24.768" E	0.002756
7	Ponnani Municipality, Veliyancode	10° 43' 47.676" N	75° 56' 18.849" E	0.00254
8	Ponnani Municipality, Veliyancode	10° 43' 49.436" N	75° 56' 21.531" E	0.0216
9	Ponnani Municipality	10° 43' 50.333" N	75° 56' 19.460" E	0.00301
10	Ponnani Municipality	10° 44' 56.704" N	75° 56' 13.320" E	0.002681
11	Ponnani Municipality	10° 44' 57.667" N	75° 56' 15.617" E	0.003233
12	Ponnani Municipality	10° 44' 59.131" N	75° 56' 10.569" E	0.002481
13	Ponnani Municipality	10° 44' 59.374" N	75° 56' 8.592" E	0.0017
14	Ponnani Municipality	10° 45' 0.931" N	75° 56' 6.882" E	0.003502
15	Ponnani Municipality	10° 45' 5.359" N	75° 56' 24.510" E	0.018395
16	Ponnani Municipality	10° 45' 5.176" N	75° 56' 29.821" E	0.026276
17	Ponnani Municipality	10° 45' 2.343" N	75° 56' 22.145" E	0.001231
18	Ponnani Municipality	10° 45' 2.264" N	75° 56' 26.200" E	0.001311
19	Ponnani Municipality	10° 45' 1.383" N	75° 56' 23.658" E	0.004626
20	Ponnani Municipality	10° 45' 7.868" N	75° 56' 16.830" E	0.003252
21	Ponnani Municipality	10° 46' 19.029" N	75° 56' 56.371" E	0.004327
22	Ponnani Municipality	10° 46' 51.019" N	75° 57' 32.468" E	0.002145
23	Ponnani Municipality	10° 46' 51.877" N	75° 57' 33.289" E	0.000239



24	Purathur	10° 47' 47.755" N	75° 55' 47.603" E	0.047274
25	Purathur	10° 48' 8.797" N	75° 54' 48.391" E	0.050049
26	Purathur	10° 48' 18.468" N	75° 55' 4.654" E	0.097893
27	Purathur	10° 48' 59.500" N	75° 54' 50.601" E	0.0018
28	Mangalam	10° 50' 34.407" N	75° 54' 24.228" E	0.027849
29	Mangalam	10° 51' 10.221" N	75° 54' 11.671" E	0.012627
30	Mangalam	10° 51' 11.658" N	75° 54' 23.549" E	0.145364
31	Mangalam	10° 50' 5.616" N	75° 54' 29.372" E	0.001453
32	Tanur Municipality	11° 0' 15.136" N	75° 51' 59.643" E	0.077337
33	Tanur Municipality	11° 1' 13.306" N	75° 53' 5.409" E	0.002819
34	Thenchipalam	11° 7' 4.321" N	75° 51' 59.508" E	0.066509
35	Vallikkunnu	11° 7' 43.496" N	75° 49' 52.275" E	0.008107
36	Vallikkunnu	11° 7' 47.011" N	75° 49' 53.590" E	0.012927
37	Vallikkunnu	11° 7' 49.735" N	75° 49' 57.594" E	0.001557
38	Vallikkunnu	11° 7' 40.477" N	75° 50' 6.392" E	0.00238
39	Vallikkunnu	11° 7' 41.573" N	75° 50' 20.485" E	0.004228
40	Vallikkunnu	11° 7' 44.362" N	75° 50' 21.717" E	0.000684
41	Vallikkunnu	11° 7' 46.400" N	75° 50' 21.433" E	0.000878
42	Vallikkunnu	11° 7' 49.176" N	75° 50' 7.930" E	0.161261
43	Vallikkunnu	11° 7' 58.978" N	75° 50' 9.563" E	0.048618
44	Triprangode	10° 49' 8.736" N	75° 57' 19.923" E	0.00246