

**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE - SANGAM BRIDGE -  
YERWADA BRIDGE  
(CH. 6/300 TO 17/730 )**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Right side of Mutha River.  
( Universal Traverse Mercator ) - 43 Q**

Chainage	Blue Line			Red Line			Remarks
	R.L.	East	North	R.L.	East	North	
6300	552.79	374343.253	2043093.373	554.90	374345.982	2043091.967	
6330	552.71	374356.994	2043120.041	554.83	374359.723	2043118.635	
6360	552.63	374371.503	2043147.695	554.76	374373.563	2043146.678	
6390	552.56	374384.936	2043171.848	554.70	374387.568	2043170.470	
6420	552.50	374404.452	2043200.413	554.67	374406.967	2043199.097	
6450	552.45	374416.336	2043225.549	554.64	374419.404	2043224.018	
6480	552.40	374426.259	2043257.532	554.60	374428.891	2043256.219	
6510	552.51	374438.964	2043281.036	554.70	374441.332	2043279.844	
6540	552.62	374454.405	2043306.850	554.80	374458.555	2043304.760	
6570	552.73	374469.948	2043332.612	554.91	374473.892	2043330.627	
6600	552.63	374486.166	2043358.035	554.78	374488.977	2043356.619	
6630	552.53	374504.667	2043383.798	554.63	374508.012	2043382.114	
6660	552.44	374529.057	2043417.463	554.51	374532.663	2043415.638	
6690	552.45	374553.280	2043437.128	554.54	374558.051	2043434.638	
6720	552.33	374577.000	2043451.420	554.46	374579.562	2043449.896	
6750	552.46	374596.627	2043465.445	554.59	374598.570	2043464.109	
6780	552.48	374615.523	2043479.269	554.61	374616.953	2043478.103	
6810	552.50	374629.040	2043491.740	554.63	374630.602	2043490.173	
6840	552.52	374645.188	2043507.025	554.63	374646.341	2043505.719	
6870	552.51	374655.761	2043518.846	554.64	374657.120	2043516.896	
6900	552.50	374677.665	2043538.905	554.64	374678.977	2043536.850	
6930	552.48	374685.751	2043545.882	554.65	374686.786	2043543.426	





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE - SANGAM BRIDGE -  
YERWADA BRIDGE  
(CH. 6/300 TO 17/730.)**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Right side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line				Red Line			Remarks
	R.L.	East		North	R.L.	East		
		East	North			East	North	
6960	552.47	374717.953	2043568.284	554.63	374718.856	2043566.141		
6990	552.46	374744.503	2043578.064	554.61	374745.586	2043575.494		
7020	552.44	374770.400	2043588.808	554.59	374772.443	2043584.008		
7050	552.44	374803.839	2043599.537	554.59	374806.528	2043593.356		
7080	552.43	374838.743	2043582.284	554.58	374843.603	2043570.945		
7110	552.43	374864.887	2043596.206	554.58	374888.723	2043540.065		
7140	552.38	374895.532	2043612.419	554.53	374928.878	2043533.878		
7170	552.33	374924.457	2043622.367	554.48	374960.717	2043537.888		
7200	552.27	374955.965	2043621.719	554.43	374985.724	2043550.840		
7230	552.23	374985.842	2043623.194	554.46	375008.943	2043566.216		
7260	552.33	375016.532	2043638.246	554.48	375040.436	2043578.903		
7290	552.36	375044.849	2043652.728	554.53	375069.686	2043592.850		
7320	552.30	375077.090	2043667.366	554.51	375104.335	2043608.028		
7350	552.26	375130.990	2043677.400	554.49	375174.557	2043608.272		
7380	552.20	375161.200	2043692.730	554.47	375212.317	2043610.894		
7410	552.24	375187.894	2043705.311	554.43	375239.563	2043623.938		
7440	552.20	375212.930	2043732.688	554.39	375274.448	2043640.641		
7470	552.21	375232.524	2043751.041	554.36	375296.371	2043651.303		
7500	552.22	375261.488	2043765.030	554.37	375319.477	2043670.845		
7530	552.22	375279.584	2043767.733	554.37	375327.304	2043675.640		
7560	552.24	375296.820	2043770.307	554.38	375335.953	2043678.725		
7590	552.23	375325.993	2043767.999	554.38	375358.685	2043686.834		





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE - SANGAM BRIDGE -  
YERWADA BRIDGE  
(CH. 6/300 TO 17/730.)**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Right side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line			Red Line			Remarks
	R.L.	East	North	R.L.	East	North	
7620	552.23	375367.430	2043751.698	554.39	375388.810	2043696.988	
7650	552.23	375394.919	2043756.774	554.39	375414.762	2043704.409	
7680	552.18	375424.089	2043755.410	554.38	375439.408	2043705.658	
7710	552.13	375429.949	2043755.002	554.34	375440.931	2043705.858	
7740	552.08	375435.810	2043754.594	554.37	375442.206	2043706.026	
7770	552.16	375460.816	2043752.853	554.42	375465.841	2043706.998	
7800	552.24	375482.352	2043759.226	554.48	375486.561	2043705.300	
7830	552.26	375508.499	2043766.964	554.49	375512.761	2043700.525	
7860	552.28	375540.509	2043776.437	554.50	375545.498	2043688.578	
7890	552.30	375572.023	2043739.369	554.51	375574.964	2043684.872	
7920	552.22	375591.189	2043727.686	554.43	375591.750	2043686.521	
7950	552.14	375616.399	2043734.405	554.29	375616.291	2043690.196	
7980	552.62	375630.106	2043736.986	554.30	375627.370	2043691.854	
8010	552.09	375657.058	2043737.776	554.17	375653.284	2043685.628	
8040	551.92	375688.029	2043758.450	554.19	375681.906	2043675.084	
8070	551.94	375698.944	2043849.226	554.22	375722.178	2043660.250	
8100	551.97	375764.251	2043890.117	554.25	375758.402	2043682.686	
8130	552.01	375806.157	2043902.251	554.27	375814.890	2043792.227	
8160	552.04	375853.092	2043910.446	554.29	375878.813	2043804.576	
8190	552.08	375893.925	2043930.461	554.32	375921.675	2043862.552	
8220	552.02	375935.432	2043967.401	554.31	375967.307	2043914.662	
8250	551.97	375957.361	2043988.378	554.30	375983.693	2043961.660	





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE - SANGAM BRIDGE -  
YERWADA BRIDGE  
(CH. 6/300 TO 17/730)**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Right side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line		Red Line		Remarks
	R.L.	East	North	East	
8280	551.91	375983.381	2044018.812	375997.201	2044000.401
8310	551.95	376009.068	2044038.340	376019.181	2044031.648
8340	551.98	376044.426	2044064.605	376046.954	2044062.096
8370	552.02	376060.087	2044096.099	376068.240	2044088.755
8400	551.97	376088.259	2044121.347	376106.803	2044107.604
8430	551.93	376109.735	2044144.931	376128.451	2044131.722
8460	551.87	376145.001	2044178.197	376151.712	2044174.553
8490	551.87	376147.114	2044213.330	376151.594	2044211.039
8520	551.88	376157.738	2044248.475	376168.649	2044243.899
8550	551.88	376179.365	2044271.883	376188.541	2044268.041
8580	551.90	376184.893	2044309.509	376188.150	2044308.175
8610	551.92	376190.700	2044338.731	376194.946	2044336.971
8640	551.94	376199.158	2044368.578	376204.151	2044366.498
8670	551.94	376212.363	2044395.199	376215.722	2044393.790
8700	551.93	376224.566	2044429.149	376227.342	2044427.972
8730	551.93	376232.435	2044458.814	376237.018	2044456.885
8760	551.94	376244.047	2044486.334	376247.624	2044484.825
8790	551.94	376251.451	2044515.982	376257.394	2044513.477
8820	551.95	376262.402	2044545.656	376266.911	2044543.755
8850	551.95	376274.059	2044573.136	376280.920	2044570.226
8880	551.94	376304.994	2044598.927	376309.602	2044596.128
8910	551.94	376316.643	2044624.640	376323.194	2044620.431





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE - SANGAM BRIDGE -  
YERWADA BRIDGE  
(CH. 6/300 TO 17/730 )**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Right side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line			Red Line			Remarks
	R.L.	East	North	R.L.	East	North	
8940	551.84	376330.346	2044650.341	554.00	376337.010	2044645.933	
8970	551.75	376344.687	2044676.182	553.91	376351.100	2044671.940	
9000	551.72	376361.573	2044706.882	553.88	376367.819	2044702.800	
9030	551.69	376377.046	2044732.579	553.85	376382.147	2044729.246	
9060	551.67	376393.468	2044757.760	553.83	376396.518	2044755.771	
9090	551.64	376409.331	2044783.346	553.80	376410.855	2044782.355	
9120	551.61	376425.363	2044808.391	553.77	376426.334	2044807.753	
9150	551.59	376443.875	2044837.119	553.74	376445.020	2044836.371	
9180	551.56	376460.267	2044862.559	553.70	376461.080	2044862.031	
9210	551.53	376476.527	2044887.541	553.66	376477.487	2044886.916	
9240	551.50	376492.682	2044912.862	553.62	376493.319	2044912.447	
9270	551.46	376508.699	2044937.722	553.57	376509.576	2044937.144	
9300	551.42	376527.332	2044966.052	553.52	376528.629	2044965.197	
9330	551.37	376544.756	2044990.659	553.46	376546.568	2044989.471	
9360	551.35	376561.091	2045015.355	553.44	376564.063	2045013.383	
9390	551.33	376577.259	2045040.428	553.42	376581.257	2045037.762	
9420	551.31	376593.906	2045065.410	553.39	376598.567	2045062.304	
9450	551.28	376612.025	2045093.999	553.36	376618.063	2045089.946	
9480	551.25	376628.812	2045119.063	553.33	376634.851	2045115.019	
9510	551.21	376646.783	2045142.990	553.30	376658.733	2045134.967	
9540	551.17	376664.918	2045167.112	553.26	376681.825	2045155.816	
9570	551.13	376677.041	2045195.069	553.22	376704.755	2045176.520	





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE - SANGAM BRIDGE -  
YERWADA BRIDGE  
(CH. 6/300 TO 17/730 )**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Right side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line		Red Line		Remarks	
	R.L.	East	North	R.L.		East
9600	551.10	376703.663	2045228.902	553.18	376748.219	2045203.902
9630	551.07	376716.169	2045245.182	553.15	376756.123	2045217.736
9660	551.04	376733.751	2045268.035	553.12	376772.292	2045239.346
9690	551.01	376754.221	2045289.604	553.09	376794.53	2045261.248
9720	550.96	376771.552	2045307.722	553.03	376812.687	2045274.724
9750	550.91	376791.609	2045330.460	552.97	376838.573	2045288.978
9780	550.85	376811.367	2045354.648	552.92	376874.208	2045300.94
9810	550.79	376827.725	2045372.019	552.85	376897.47	2045305.433
9840	550.73	376846.428	2045391.362	552.78	376920.725	2045314.28
9870	550.68	376867.366	2045411.908	552.71	376944.308	2045331.045
9900	550.64	376887.711	2045433.724	552.66	376960.716	2045352.399
9930	550.60	376907.812	2045454.183	552.61	376965.091	2045390.65
9960	550.56	376933.817	2045476.290	552.56	376969.52	2045437.477
9990	550.51	376954.814	2045492.827	552.49	376976.585	2045467.595
10020	550.46	376974.094	2045508.012	552.42	376988.153	2045490.202
10050	550.41	376999.473	2045535.349	552.36	377012.934	2045518.694
10080	550.34	377017.694	2045553.693	552.27	377029.913	2045535.913
10110	550.27	377043.271	2045581.174	552.18	377058.501	2045563.225
10140	550.20	377073.759	2045611.298	552.08	377088.327	2045599.264
10170	550.15	377101.071	2045638.304	552.03	377112.227	2045630.775
10200	550.10	377127.478	2045661.485	551.97	377134.226	2045656.931
10230	550.06	377155.264	2045680.635	551.92	377157.435	2045679.211





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE - SANGAM BRIDGE -  
YERWADA BRIDGE  
(CH. 6/300 TO 17/730 )**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Right side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line			Red Line			Remarks
	R.L.	North		R.L.	North		
		East	North		East	North	
10260	550.01	377169.139	2045708.849	551.36	377170.911	2045707.717	
10290	549.96	377182.731	2045737.314	551.80	377184.340	2045736.315	
10320	549.92	377197.082	2045768.959	551.74	377199.057	2045767.858	
10350	549.87	377210.809	2045812.551	551.67	377213.163	2045811.584	
10380	549.81	377223.317	2045839.574	551.66	377227.626	2045837.744	
10410	549.75	377235.984	2045866.533	551.52	377242.127	2045863.973	
10440	549.71	377246.554	2045899.451	551.51	377256.179	2045895.968	
10470	549.62	377256.526	2045927.076	551.47	377265.017	2045923.940	
10500	549.62	377268.186	2045962.412	551.45	377275.938	2045959.854	
10530	549.57	377275.800	2046001.733	551.43	377281.899	2046000.423	
10560	549.52	377282.039	2046038.684	551.41	377287.417	2046037.974	
10590	549.46	377286.031	2046068.106	551.39	377290.018	2046067.565	
10620	549.40	377288.805	2046103.112	551.37	377290.837	2046102.951	
10650	549.34	377287.491	2046147.204	551.35	377291.865	2046147.334	
10680	549.29	377284.241	2046177.821	551.33	377292.214	2046178.114	
10710	549.23	377279.094	2046210.553	551.31	377286.524	2046211.071	
10740	549.18	377273.923	2046242.294	551.29	377281.019	2046242.962	
10770	549.13	377272.030	2046274.608	551.27	377277.834	2046275.312	
10800	549.05	377270.546	2046308.340	551.25	377275.582	2046308.932	
10830	548.97	377269.576	2046338.309	551.23	377273.964	2046338.812	
10860	548.90	377268.967	2046368.973	551.21	377273.163	2046369.475	
10890	548.82	377265.128	2046399.437	551.19	377272.315	2046400.342	





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE - SANGAM BRIDGE -  
YERWADA BRIDGE  
(CH. 6/300 TO 17/730 )**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Right side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line		Red Line		Remarks
	R.L.	East	North	East	
10920	548.74	377266.316	2046430.494	377271.459	2046431.142
10950	548.65	377267.280	2046455.681	377271.801	2046455.943
10980	548.62	377268.872	2046486.375	377272.991	2046486.527
11010	548.50	377270.535	2046517.963	377274.218	2046518.058
11040	548.57	377275.430	2046550.893	377281.754	2046551.056
11070	548.57	377286.614	2046566.318	377290.950	2046565.798
11100	548.56	377294.148	2046584.039	377297.231	2046583.361
11130	548.56	377298.943	2046607.973	377302.301	2046606.900
11160	548.55	377303.585	2046632.097	377308.190	2046630.289
11190	548.50	377311.741	2046658.269	377315.603	2046656.508
11220	548.55	377317.588	2046670.979	377319.352	2046669.769
11250	548.54	377329.280	2046691.170	377333.210	2046687.810
11280	548.54	377346.169	2046709.396	377349.028	2046706.504
11310	548.53	377369.437	2046732.383	377380.666	2046721.016
11340	548.53	377404.529	2046743.775	377510.846	2046636.668
11370	548.53	377481.386	2046712.779	377505.686	2046688.298
11400	548.52	377473.977	2046766.190	377499.261	2046740.586
11430	548.52	377487.316	2046799.734	377505.553	2046781.357
11460	548.51	377501.638	2046831.898	377517.697	2046815.759
11490	548.51	377531.112	2046849.353	377534.803	2046845.672
11520	548.51	377552.800	2046874.233	377557.124	2046869.933
11550	548.50	377574.382	2046898.992	377579.181	2046894.226





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE - SANGAM BRIDGE -  
YERWADA BRIDGE  
(CH. 6/300 TO 17/730 )**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Right side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line		Red Line		Remarks
	R.L.	East	North	East	
11580	548.50	377599.429	2046934.025	377606.010	2046928.525
11610	548.49	377630.727	2046951.558	377635.829	2046947.294
11640	548.49	377656.290	2046992.634	377661.880	2046989.155
11670	548.49	377672.811	2047016.240	377677.636	2047013.061
11700	548.48	377690.309	2047042.641	377695.125	2047039.449
11730	548.48	377707.933	2047069.654	377713.064	2047066.272
11760	548.47	377729.699	2047093.688	377735.948	2047089.569
11790	548.47	377757.912	2047112.574	377763.804	2047108.651
11820	548.47	377775.555	2047136.236	377780.510	2047132.809
11850	548.46	377780.910	2047168.953	377790.399	2047162.291
11880	548.46	377797.002	2047197.584	377804.696	2047192.181
11910	548.45	377810.007	2047205.871	377814.014	2047202.110
11940	548.45	377827.772	2047231.154	377833.516	2047225.623
11970	548.45	377847.264	2047254.878	377851.700	2047250.511
12000	548.42	377865.039	2047277.511	377869.923	2047272.399
12030	547.86	377884.794	2047300.640	377891.157	2047293.759
12060	547.79	377905.693	2047319.916	377911.091	2047313.813
12090	547.72	377935.727	2047346.164	377939.471	2047342.361
12120	547.65	377965.821	2047373.144	377967.321	2047371.868
12150	547.58	377985.882	2047397.348	377988.914	2047394.835
12180	547.51	378004.753	2047419.789	378009.009	2047416.210
12210	547.44	378022.783	2047444.055	378027.308	2047440.252





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE - SANGAM BRIDGE -  
YERWADA BRIDGE  
(CH. 6/300 TO 17/730 )**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Right side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line		Red Line		Remarks
	R.L.	East	North	East	
12240	547.37	378038.170	2047472.236	378045.703	2047465.874
12270	547.30	378056.327	2047498.911	378064.506	2047492.065
12300	547.23	378075.724	2047522.081	378082.177	2047516.679
12330	547.16	378094.983	2047545.087	378100.276	2047540.656
12360	547.09	378103.158	2047579.990	378119.742	2047566.691
12390	547.02	378108.371	2047617.139	378117.304	2047610.586
12420	546.95	378131.277	2047648.821	378138.684	2047644.837
12450	546.88	378148.054	2047673.476	378156.084	2047669.313
12480	546.81	378162.840	2047698.715	378171.968	2047694.119
12510	546.74	378177.446	2047724.249	378185.913	2047720.005
12540	546.67	378199.729	2047750.087	378205.397	2047747.535
12570	546.60	378218.164	2047770.536	378224.624	2047767.258
12600	546.53	378232.765	2047791.141	378240.269	2047786.678
12630	546.46	378241.199	2047815.764	378246.334	2047812.304
12660	546.39	378261.976	2047835.427	378265.406	2047832.963
12690	546.32	378273.497	2047853.398	378279.036	2047848.557
12720	546.25	378286.463	2047874.294	378293.946	2047866.637
12750	546.18	378305.478	2047897.963	378313.455	2047889.710
12780	546.11	378325.543	2047921.833	378333.582	2047913.515
12810	546.04	378348.414	2047944.740	378354.673	2047938.458
12840	545.97	378369.598	2047967.820	378375.002	2047962.501
12870	545.90	378387.300	2047993.790	378394.345	2047987.122





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE - SANGAM BRIDGE -  
YERWADA BRIDGE  
(CH. 6/300 TO 17/730.)**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Right side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line			Red Line			Remarks
	R.L.	East	North	R.L.	East	North	
	12900	545.83	378404.264	2048018.516	548.37	378411.615	
12930	545.76	378423.605	2048041.678	548.29	378429.183	2048036.250	
12960	545.69	378445.032	2048063.630	550.22	378450.602	2048058.193	
12990	545.69	378473.932	2048078.656	548.15	378476.757	2048075.644	
13020	545.69	378484.807	2048113.728	548.08	378487.047	2048111.585	
13050	545.33	378516.132	2048119.305	548.08	378517.254	2048118.103	
13080	545.29	378542.705	2048125.367	548.07	378546.994	2048118.147	
13110	545.26	378556.457	2048141.621	548.06	378557.995	2048139.235	
13140	545.23	378575.933	2048148.110	548.05	378576.878	2048146.226	
13170	545.19	378590.704	2048148.109	548.04	378591.235	2048145.882	
13200	545.16	378621.658	2048141.478	548.03	378625.379	2048139.347	
13230	545.12	378642.104	2048141.614	548.02	378642.301	2048139.335	
13260	545.09	378675.043	2048154.765	548.00	378677.488	2048129.464	
13290	545.05	378709.316	2048170.536	547.98	378716.710	2048113.107	
13320	545.02	378747.006	2048179.196	547.96	378756.119	2048133.467	
13350	544.98	378781.329	2048187.024	547.94	378789.599	2048150.763	
13380	544.95	378813.245	2048191.743	547.92	378819.754	2048161.807	
13410	544.91	378845.812	2048197.911	547.90	378851.835	2048170.425	
13440	544.88	378878.860	2048204.171	547.88	378884.523	2048179.206	
13470	544.84	378916.960	2048210.673	547.86	378922.906	2048190.541	
13500	544.81	378954.274	2048213.372	547.84	378959.025	2048199.220	
13530	544.77	378990.970	2048225.729	547.82	379000.457	2048202.185	





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE - SANGAM BRIDGE -  
YERWADA BRIDGE  
(CH. 6/300 TO 17/730.)**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Right side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line		Red Line		Remarks	
	R.L.	East	North	R.L.		East
13560	544.73	379025.339	2048244.122	547.80	379027.681	2048239.209
13590	544.70	379056.425	2048261.675	547.78	379057.000	2048260.551
13620	544.67	379088.679	2048274.034	547.76	379090.280	2048271.015
13650	544.63	379118.779	2048289.221	547.74	379122.810	2048281.756
13680	544.54	379151.803	2048302.045	547.72	379155.624	2048295.318
13710	544.56	379184.983	2048313.039	547.70	379187.610	2048308.539
13740	544.53	379220.981	2048333.056	547.68	379224.635	2048327.750
13770	544.49	379260.706	2048363.346	547.66	379261.772	2048362.212
13800	544.46	379284.717	2048387.393	547.64	379285.997	2048386.055
13830	544.42	379307.133	2048413.050	547.62	379307.646	2048412.523
13860	544.39	379328.434	2048439.646	547.60	379328.792	2048439.284
13890	544.35	379348.364	2048465.662	547.58	379349.017	2048464.995
13920	544.32	379371.092	2048487.822	547.56	379371.355	2048487.547
13950	544.28	379396.185	2048511.185	547.54	379396.344	2048511.023
13980	544.25	379421.116	2048533.351	547.52	379421.284	2048533.181
14010	544.23	379448.148	2048552.093	547.37	379448.397	2048551.837
14040	544.19	379475.783	2048569.882	547.37	379475.918	2048569.742
14070	544.19	379499.777	2048589.419	547.34	379500.948	2048588.201
14100	544.18	379536.989	2048625.424	547.32	379538.611	2048624.038
14130	544.18	379558.482	2048646.482	547.30	379561.621	2048643.801
14160	544.17	379578.018	2048670.675	547.27	379581.619	2048667.622
14190	544.17	379596.969	2048693.007	547.25	379600.265	2048690.210





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE - SANGAM BRIDGE -  
YERWADA BRIDGE  
(CH. 6/300 TO 17/730 )**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Right side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line		Red Line		Remarks
	R.L.	East	North	East	
14220	544.16	379617.612	2048715.140	379619.515	2048713.529
14250	544.16	379633.605	2048741.909	379646.171	2048731.391
14280	544.15	379656.892	2048761.170	379668.614	2048751.319
14310	544.15	379680.885	2048781.015	379691.815	2048771.922
14340	544.14	379698.996	2048804.905	379708.975	2048796.602
14370	544.14	379712.235	2048829.089	379723.991	2048823.193
14400	544.13	379728.463	2048854.729	379737.644	2048846.757
14430	544.13	379746.556	2048878.750	379754.824	2048871.571
14460	544.12	379773.923	2048924.938	379783.755	2048919.382
14490	544.12	379791.843	2048949.270	379798.515	2048945.500
14520	544.11	379817.045	2049008.922	379821.274	2049007.961
14550	544.11	379823.011	2049074.215	379838.911	2049075.430
14580	544.10	379813.515	2049103.577	379830.914	2049105.755
14610	544.10	379811.826	2049133.535	379821.532	2049134.277
14640	544.09	379813.889	2049158.487	379827.628	2049159.734
14670	545.09	379814.072	2049160.706	379828.118	2049161.779
14700	545.08	379816.218	2049190.629	379834.709	2049189.304
14730	545.08	379823.899	2049220.156	379840.199	2049218.987
14760	544.07	379830.122	2049243.022	379838.105	2049234.176
14790	544.07	379831.450	2049282.635	379836.012	2049249.364
14820	545.06	379845.691	2049310.320	379833.670	2049279.609
14850	545.06	379830.122	2049243.022	379833.589	2049280.660





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE - SANGAM BRIDGE -  
YERWADA BRIDGE  
(CH. 6/300 TO 17/730 )**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Right side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line		Red Line		Remarks
	R.L.	East	North	East	
14880	545.05	379831.450	2049282.635	379853.092	2049303.484
14910	545.05	379845.691	2049310.320	379858.457	2049307.909
14940	545.40	379870.849	2049327.922	379876.450	2049322.749
14970	545.04	379897.346	2049344.287	379908.583	2049333.908
15000	544.03	379925.725	2049358.913	379937.155	2049348.357
15030	543.73	379948.045	2049379.137	379954.651	2049373.035
15060	543.72	379957.792	2049410.973	379975.981	2049394.172
15090	543.72	379972.488	2049438.238	380001.065	2049411.842
15120	543.71	379992.843	2049460.276	380033.391	2049422.823
15150	543.71	380021.432	2049492.218	380103.149	2049431.275
15180	543.70	380055.443	2049504.277	380145.386	2049437.199
15210	543.70	380170.839	2049455.641	380176.688	2049451.279
15240	543.69	380199.607	2049471.611	380207.989	2049465.359
15270	543.69	380228.376	2049487.580	380239.291	2049479.439
15300	543.68	380256.132	2049504.304	380264.857	2049497.797
15330	543.68	380283.207	2049521.536	380292.107	2049514.898
15360	543.67	380311.207	2049538.078	380318.663	2049532.518
15390	543.67	380329.687	2049552.253	380336.692	2049546.777
15420	543.66	380352.546	2049572.462	380357.268	2049568.772
15450	543.66	380378.429	2049590.308	380380.809	2049588.448
15480	543.65	380392.192	2049617.628	380395.715	2049614.873
15510	543.65	380409.664	2049642.048	380415.126	2049637.778





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE - SANGAM BRIDGE -  
YERWADA BRIDGE  
(CH. 6/300 TO 17/730 )**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Right side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line		Red Line		Remarks
	R.L.	East	North	East	
15540	543.64	380409.664	2049642.048	380434.537	2049660.683
15570	543.64	380427.136	2049666.468	380454.130	2049683.446
15600	543.63	380441.965	2049692.955	380459.915	2049688.086
15630	543.64	380449.214	2049701.429	380466.657	2049695.290
15660	543.62	380461.485	2049715.775	380475.544	2049704.784
15690	543.62	380469.132	2049724.543	380480.704	2049710.115
15720	543.61	380489.571	2049747.007	380499.633	2049734.463
15750	543.61	380510.387	2049769.003	380518.562	2049758.811
15780	543.60	380530.710	2049791.612	380537.328	2049783.361
15810	543.60	380549.760	2049815.809	380553.910	2049810.636
15840	543.59	380568.345	2049840.585	380574.816	2049832.518
15870	543.59	380573.642	2049848.160	380579.589	2049837.514
15900	543.58	380586.451	2049865.960	380595.722	2049854.401
15930	543.57	380594.174	2049872.922	380601.273	2049860.212
15960	543.57	380616.233	2049894.950	380621.875	2049884.847
15990	543.56	380634.818	2049923.197	380639.038	2049915.641
16020	543.56	380653.375	2049951.493	380656.771	2049945.413
16050	543.56	380672.763	2049978.302	380677.386	2049970.026
16080	543.55	380694.619	2050000.694	380699.903	2049991.233
16110	543.55	380699.848	2050004.572	380702.883	2049994.039
16140	543.54	380718.323	2050019.775	380722.617	2050012.088
16170	543.54	380724.912	2050025.935	380727.739	2050016.127





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE - SANGAM BRIDGE -  
YERWADA BRIDGE  
(CH. 6/300 TO 17/730.)**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Right side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line		Red Line		Remarks	
	R.L.	East	North	R.L.		East
16200	543.53	380747.555	2050055.699	545.71	380749.477	2050049.030
16230	543.53	380771.726	2050080.161	545.69	380775.561	2050066.854
16260	543.52	380798.561	2050095.379	545.66	380802.114	2050083.053
16290	543.52	380825.961	2050108.637	545.64	380828.666	2050099.252
16320	543.51	380853.277	2050122.190	545.62	380855.219	2050115.451
16350	543.51	380878.077	2050144.466	545.60	380881.771	2050131.650
16380	543.50	380906.328	2050169.841	545.57	380912.582	2050150.447
16410	543.50	380932.939	2050185.067	545.55	380938.921	2050166.516
16440	543.49	380960.114	2050198.543	545.53	380965.261	2050182.585
16470	543.49	380987.563	2050211.173	545.50	380993.406	2050193.054
16500	543.48	381014.797	2050224.468	545.48	381021.615	2050203.324
16530	543.48	381043.349	2050233.675	545.46	381049.825	2050213.593
16560	543.47	381075.454	2050231.866	545.44	381078.034	2050223.863
16590	543.47	381099.151	2050256.127	545.41	381103.166	2050243.677
16620	543.46	381125.227	2050273.013	545.39	381131.984	2050252.060
16650	543.46	381152.182	2050287.173	545.37	381160.802	2050260.443
16680	543.89	381180.734	2050296.381	545.34	381183.537	2050287.688
16710	543.45	381210.699	2050310.691	545.32	381213.306	2050303.398
16740	543.44	381238.628	2050321.686	545.30	381240.035	2050317.748
16770	543.44	381266.422	2050333.058	545.27	381268.024	2050328.576
16800	543.43	381293.060	2050347.663	545.25	381294.669	2050343.162
16830	543.43	381323.546	2050351.505	545.23	381323.762	2050350.901





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE - SANGAM BRIDGE -  
YERWADA BRIDGE  
(CH. 6/300 TO 17/730 )**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Right side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line		Red Line		Remarks
	R.L.	East	North	East	
16860	543.42	381349.865	2050367.002	381351.698	2050361.874
16890	543.42	381380.006	2050371.809	381380.096	2050371.556
16920	543.41	381408.344	2050381.659	381408.426	2050381.429
16950	543.41	381436.773	2050391.256	381436.785	2050391.221
16980	543.40	381465.382	2050400.348	381465.413	2050400.261
17010	543.40	381493.949	2050409.556	381493.957	2050409.533
17040	543.39	381522.112	2050419.898	381522.119	2050419.876
17070	543.39	381551.718	2050426.201	381551.963	2050425.514
17100	543.38	381580.492	2050434.830	381581.879	2050430.951
17130	543.38	381595.072	2050437.712	381595.673	2050434.669
17160	543.37	381623.547	2050448.365	381624.441	2050443.842
17190	543.37	381651.294	2050462.694	381653.274	2050452.682
17220	543.36	381680.539	2050469.453	381682.702	2050458.510
17250	543.36	381709.969	2050475.271	381711.897	2050465.519
17280	543.35	381739.308	2050481.552	381741.275	2050471.603
17310	543.35	381768.739	2050487.370	381771.203	2050474.902
17340	543.34	381798.820	2050489.893	381800.079	2050483.525
17370	543.34	381828.251	2050495.711	381830.043	2050486.648
17400	543.33	381860.437	2050487.591	381860.540	2050487.070
17430	543.33	381888.115	2050497.906	381889.592	2050490.094
17460	543.32	381917.166	2050505.737	381920.126	2050490.077
17490	543.32	381948.499	2050501.497	381949.390	2050496.781





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE - SANGAM BRIDGE -  
YERWADA BRIDGE  
(CH. 6/300 TO 17/730.)**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Right side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line			Red Line			Remarks
	R.L.	East	North	R.L.	East	North	
17520	543.31	381978.592	2050503.812	544.70	381979.249	2050500.339	
17550	543.31	382008.567	2050506.757	544.68	382009.658	2050500.983	
17580	543.30	382040.489	2050499.398	544.65	382041.242	2050495.413	
17610	543.30	382071.011	2050499.445	544.63	382071.428	2050497.239	
17640	543.30	382101.794	2050498.113	544.61	382101.833	2050497.904	
17670	543.29	382130.902	2050505.641	544.58	382130.909	2050505.603	
17700	543.28	382160.211	2050512.107	544.56	382160.228	2050512.017	
17730	543.28	382189.908	2050516.521	544.54	382189.925	2050516.430	



*[Handwritten signature]*

**Executive Engineer**  
Khadakwasla Irrigation Division, Pune-11.

*[Handwritten signature]*

**Sub Divisional Engineer**  
Mutha Canal Irrigation Sub Dn  
Pune 411 037.

*[Handwritten signature]*

**Sectional Engineer**  
Kothrud Irrigation Section  
Erandwana Pune-38



**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE -  
SANGAM BRIDGE - YERWADA BRIDGE  
(CH. 6/300 TO 17/730 )**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Left side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line			Red Line			Remarks
	R.L.	East	North	R.L.	East	North	
6300	552.79	374231.255	2043151.081	554.90	374230.473	2043151.484	
6330	552.71	374233.008	2043183.926	554.83	374227.821	2043186.598	
6360	552.63	374232.858	2043216.124	554.76	374225.310	2043219.850	
6390	552.56	374182.764	2043277.651	554.70	374174.658	2043281.893	
6420	552.50	374127.751	2043345.219	554.67	374119.114	2043349.928	
6450	552.45	374127.668	2043368.920	554.64	374117.929	2043374.468	
6480	552.40	374279.007	2043331.018	554.60	374159.560	2043390.628	
6510	552.51	374243.529	2043379.418	554.70	374196.414	2043403.136	
6540	552.62	374252.306	2043408.586	554.80	374216.406	2043426.659	
6570	552.73	374258.768	2043438.920	554.91	374226.492	2043455.168	
6600	552.63	374287.735	2043457.925	554.78	374254.623	2043474.593	
6630	552.53	374324.732	2043474.377	554.63	374285.764	2043493.993	
6660	552.44	374383.547	2043491.113	554.51	374337.976	2043514.179	
6690	552.45	374395.669	2043519.383	554.54	374357.909	2043539.089	
6720	552.33	374424.607	2043542.040	554.46	374398.894	2043557.330	
6750	552.46	374451.104	2043565.492	554.59	374442.344	2043571.515	
6780	552.48	374476.749	2043592.460	554.61	374469.492	2043598.378	
6810	552.50	374506.875	2043614.376	554.63	374495.675	2043625.619	
6840	552.52	374530.508	2043636.814	554.63	374519.026	2043649.809	
6870	552.51	374559.810	2043656.552	554.64	374555.165	2043663.217	
6900	552.50	374587.986	2043679.402	554.64	374586.281	2043682.074	
6930	552.48	374623.878	2043692.598	554.65	374622.638	2043695.598	





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE -  
SANGAM BRIDGE - YERWADA BRIDGE  
(CH. 6/300 TO 17/730)**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Left side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line			Red Line			Remarks
	R.L.	East	North	R.L.	East	North	
6960	552.47	374656.085	2043715.047	554.63	374653.310	2043721.629	
6990	552.46	374682.652	2043724.786	554.61	374681.283	2043728.033	
7020	552.44	374708.416	2043734.410	554.59	374707.369	2043736.870	
7050	552.44	374737.175	2043752.772	554.59	374735.617	2043756.352	
7080	552.43	374761.946	2043761.461	554.58	374760.580	2043764.647	
7110	552.43	374788.541	2043776.023	554.58	374787.006	2043779.639	
7140	552.38	374821.103	2043787.719	554.53	374819.947	2043790.442	
7170	552.33	374848.547	2043799.576	554.48	374846.569	2043803.834	
7200	552.27	374875.386	2043813.640	554.43	374873.725	2043817.597	
7230	552.23	374902.802	2043828.008	554.46	374901.502	2043831.215	
7260	552.33	374933.082	2043845.409	554.48	374932.036	2043848.006	
7290	552.36	374960.252	2043856.679	554.53	374958.851	2043860.057	
7320	552.30	374989.049	2043861.015	554.51	374969.729	2043902.535	
7350	552.26	374998.027	2043888.370	554.49	374986.235	2043907.080	
7380	552.20	375022.009	2043915.565	554.47	375014.106	2043928.218	
7410	552.24	375040.297	2043943.200	554.43	375018.263	2043978.351	
7440	552.20	375078.640	2043934.289	554.39	375056.285	2043967.814	
7470	552.21	375103.389	2043953.703	554.36	375093.960	2043968.478	
7500	552.22	375129.453	2043979.481	554.37	375123.561	2043989.051	
7530	552.22	375166.567	2043985.841	554.37	375164.363	2043990.095	
7560	552.24	375201.540	2043993.287	554.38	375199.386	2043998.327	
7590	552.23	375234.960	2043994.016	554.38	375229.889	2044006.607	





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE -  
SANGAM BRIDGE - YERWADA BRIDGE  
(CH. 6/300 TO 17/730 )**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Left side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line			Red Line			Remarks
	R.L.	East	North	R.L.	East	North	
7620	552.23	375267.203	2044008.176	554.39	375263.347	2044018.042	
7650	552.23	375294.286	2044022.347	554.39	375291.234	2044030.402	
7680	552.18	375323.046	2044033.195	554.38	375319.050	2044044.183	
7710	552.13	375362.414	2044042.859	554.34	375355.391	2044056.397	
7740	552.08	375396.739	2044051.285	554.37	375395.551	2044060.306	
7770	552.16	375427.032	2044061.147	554.42	375426.749	2044063.725	
7800	552.24	375458.195	2044068.711	554.48	375455.154	2044107.672	
7830	552.26	375487.495	2044094.390	554.49	375486.162	2044115.175	
7860	552.28	375523.430	2044077.244	554.50	375520.799	2044123.595	
7890	552.30	375553.737	2044078.163	554.51	375550.732	2044133.834	
7920	552.22	375586.442	2044075.592	554.43	375585.332	2044156.898	
7950	552.14	375617.221	2044071.604	554.29	375617.501	2044186.588	
7980	552.62	375650.314	2044070.346	554.30	375657.708	2044192.318	
8010	552.09	375680.989	2044068.528	554.17	375689.059	2044180.058	
8040	551.92	375710.635	2044061.807	554.19	375718.662	2044169.863	
8070	551.94	375738.099	2044064.715	554.22	375742.558	2044177.984	
8100	551.97	375773.669	2044070.541	554.25	375778.378	2044190.157	
8130	552.01	375798.208	2044072.004	554.27	375790.483	2044194.271	
8160	552.04	375817.359	2044075.699	554.29	375790.909	2044194.416	
8190	552.08	375838.527	2044080.895	554.32	375794.795	2044195.737	
8220	552.02	375858.982	2044093.894	554.31	375796.036	2044198.043	
8250	551.97	375881.161	2044107.988	554.30	375804.905	2044216.817	





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE -**  
**SANGAM BRIDGE - YERWADA BRIDGE**  
**(CH. 6/300 TO 17/730 )**

Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Left side of Mutha River.  
(Universal Traverse Mercator) - 43 Q

Chainage	Blue Line			Red Line			Remarks
	R.L.	East	North	R.L.	East	North	
8280	551.91	375914.442	2044110.656	554.01	375816.436	2044241.225	
8310	551.95	375917.864	2044147.948	554.06	375824.719	2044254.868	
8340	551.98	375915.351	2044192.678	554.11	375840.643	2044266.806	
8370	552.02	375926.635	2044216.297	554.18	375857.649	2044278.431	
8400	551.97	375941.823	2044229.869	554.14	375868.990	2044283.845	
8430	551.93	375967.338	2044245.429	554.11	375895.186	2044296.351	
8460	551.87	375992.337	2044261.107	554.07	375910.161	2044305.736	
8490	551.87	376011.382	2044282.735	554.06	375928.088	2044325.327	
8520	551.88	376029.449	2044302.285	554.05	375940.965	2044339.399	
8550	551.88	376048.562	2044326.660	554.04	375949.515	2044368.139	
8580	551.90	376039.616	2044369.037	554.06	375952.053	2044404.916	
8610	551.92	376058.605	2044393.520	554.09	375955.014	2044436.487	
8640	551.94	376049.603	2044430.899	554.11	375960.116	2044468.190	
8670	551.94	376057.557	2044460.146	554.11	375970.141	2044496.820	
8700	551.93	376069.662	2044493.934	554.01	375984.379	2044530.945	
8730	551.93	376077.168	2044524.193	554.10	375998.869	2044557.162	
8760	551.94	376093.506	2044549.856	554.11	376033.046	2044575.367	
8790	551.94	376104.071	2044578.103	545.12	376078.581	2044588.847	
8820	551.95	376115.401	2044607.617	554.13	376097.622	2044615.111	
8850	551.95	376145.747	2044627.565	554.11	376125.270	2044636.252	
8880	551.94	376164.590	2044684.194	554.10	376147.989	2044694.276	
8910	551.94	376177.797	2044713.850	554.09	376161.238	2044724.490	





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE -  
SANGAM BRIDGE - YERWADA BRIDGE  
[CH. 6/300 TO 17/730.]**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Left side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line		Red Line		Remarks	
	R.L.	East	North	R.L.		East
8940	551.84	376192.176	2044741.742	554.00	376178.594	2044750.727
8970	551.75	376202.902	2044769.975	553.91	376196.382	2044774.288
9000	551.72	376232.892	2044790.984	553.88	376216.390	2044801.769
9030	551.69	376245.568	2044818.489	553.85	376234.217	2044825.905
9060	551.67	376263.923	2044842.243	553.83	376256.141	2044847.318
9090	551.64	376297.083	2044856.317	553.80	376282.217	2044865.981
9120	551.61	376307.962	2044885.521	553.77	376298.946	2044891.445
9150	551.59	376324.387	2044915.138	553.74	376317.397	2044919.702
9180	551.56	376343.910	2044938.038	553.70	376341.479	2044939.615
9210	551.53	376362.815	2044961.551	553.66	376360.295	2044963.191
9240	551.50	376377.232	2044987.977	553.62	376374.433	2044989.798
9270	551.46	376390.325	2045015.641	553.57	376388.143	2045017.077
9300	551.42	376396.744	2045052.010	553.52	376392.949	2045054.508
9330	551.37	376411.024	2045078.331	553.46	376407.562	2045080.601
9360	551.35	376421.857	2045107.717	553.44	376414.515	2045112.586
9390	551.33	376425.521	2045141.599	553.42	376421.278	2045144.428
9420	551.31	376439.499	2045168.298	553.39	376436.055	2045170.592
9450	551.28	376459.189	2045196.595	553.36	376452.204	2045201.284
9480	551.25	376476.622	2045220.962	553.33	376468.066	2045226.691
9510	551.21	376494.092	2045245.492	553.30	376486.874	2045250.337
9540	551.17	376511.932	2045269.326	553.26	376503.169	2045275.181
9570	551.13	376528.693	2045294.366	553.22	376525.988	2045296.176





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE -  
SANGAM BRIDGE - YERWADA BRIDGE  
(CH. 6/300 TO 17/730.)**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Left side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line			Red Line			Remarks
	R.L.	East	North	R.L.	East	North	
9600	551.10	376551.278	2045320.148	553.18	376550.271	2045320.822	
9630	551.07	376575.126	2045341.180	553.15	376571.858	2045343.398	
9660	551.04	376598.200	2045361.530	553.12	376595.664	2045363.246	
9690	551.01	376619.203	2045384.003	553.09	376615.888	2045386.167	
9720	550.96	376648.969	2045399.568	553.03	376638.316	2045406.757	
9750	550.91	376677.049	2045421.836	552.97	376661.968	2045432.061	
9780	550.85	376685.119	2045452.574	552.92	376681.316	2045455.150	
9810	550.79	376704.470	2045475.867	552.85	376700.782	2045478.379	
9840	550.73	376730.510	2045499.600	552.78	376724.745	2045504.160	
9870	550.68	376753.326	2045524.326	552.71	376746.665	2045529.981	
9900	550.64	376791.466	2045541.702	552.66	376788.047	2045545.342	
9930	550.60	376816.289	2045559.187	552.61	376814.840	2045560.963	
9960	550.56	376843.291	2045577.988	552.56	376841.875	2045579.717	
9990	550.51	376867.532	2045596.213	552.49	376866.098	2045597.984	
10020	550.46	376890.764	2045615.057	552.42	376889.169	2045617.023	
10050	550.41	376916.965	2045636.899	552.36	376915.481	2045638.738	
10080	550.34	376942.223	2045654.628	552.27	376940.597	2045656.731	
10110	550.27	376965.620	2045676.238	552.18	376958.567	2045686.157	
10140	550.20	376968.839	2045697.022	552.08	376965.314	2045700.886	
10170	550.15	376986.361	2045715.729	552.03	376979.591	2045720.299	
10200	550.10	377011.680	2045739.645	551.97	377004.078	2045744.776	
10230	550.06	377034.608	2045759.788	551.92	377032.134	2045761.410	





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE -  
SANGAM BRIDGE - YERWADA BRIDGE  
(CH. 6/300 TO 17/730.)**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Left side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line			Red Line			Remarks
	R.L.	East	North	R.L.	East	North	
10260	550.01	377055.317	2045781.580	551.36	377048.007	2045786.251	
10290	549.96	377077.296	2045802.734	551.80	377068.663	2045808.090	
10320	549.92	377090.115	2045828.626	551.74	377080.230	2045834.140	
10350	549.87	377094.456	2045860.340	551.67	377087.853	2045863.052	
10380	549.81	377104.894	2045888.599	551.66	377101.813	2045889.876	
10410	549.75	377112.646	2045917.919	551.52	377109.531	2045919.216	
10440	549.71	377123.104	2045944.123	551.51	377121.092	2045944.851	
10470	549.62	377130.132	2045973.762	551.47	377128.649	2045974.310	
10500	549.62	377142.090	2046004.020	551.45	377136.814	2046005.761	
10530	549.57	377146.317	2046029.560	551.43	377129.187	2046033.241	
10560	549.52	377140.000	2046057.427	551.41	377092.367	2046063.712	
10590	549.46	377128.372	2046089.495	551.39	377074.328	2046096.827	
10620	549.40	377126.986	2046115.938	551.37	377065.890	2046121.725	
10650	549.34	377131.604	2046142.559	551.35	377058.341	2046140.376	
10680	549.29	377135.092	2046172.353	551.33	377054.613	2046169.402	
10710	549.23	377135.044	2046200.512	551.31	377053.755	2046194.846	
10740	549.18	377133.057	2046229.019	551.29	377049.375	2046221.133	
10770	549.13	377136.168	2046258.137	551.27	377048.938	2046247.562	
10800	549.05	377130.512	2046291.865	551.25	377047.313	2046282.077	
10830	548.97	377128.195	2046322.100	551.23	377052.004	2046313.365	
10860	548.90	377121.719	2046351.363	551.21	377072.844	2046345.518	
10890	548.82	377114.163	2046380.414	551.19	377089.874	2046377.354	





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE -**  
**SANGAM BRIDGE - YERWADA BRIDGE**  
**(CH. 6/300 TO 17/730 )**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Left side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line		Red Line		Remarks		
	R.L.	East	North	R.L.		East	North
10920	548.74	377094.677	2046408.866	551.17	377079.910	2046407.005	
10950	548.65	377020.180	2046441.319	551.15	376947.029	2046390.262	
10980	548.62	377046.544	2046478.145	551.13	377009.692	2046440.710	
11010	548.50	377058.091	2046512.500	551.11	377036.771	2046477.783	
11040	548.57	377079.276	2046545.849	551.11	377051.647	2046512.334	
11070	548.57	377100.620	2046588.620	551.11	377058.014	2046545.303	
11100	548.56	377105.794	2046625.452	551.10	377057.988	2046593.732	
11130	548.56	377122.435	2046664.338	551.10	377052.602	2046637.148	
11160	548.55	377147.260	2046693.475	551.10	377092.542	2046673.884	
11190	548.50	377166.755	2046724.390	551.09	377143.589	2046694.774	
11220	548.55	377187.766	2046762.542	551.08	377163.671	2046725.796	
11250	548.54	377213.720	2046789.969	551.09	377185.979	2046763.802	
11280	548.54	377238.305	2046818.539	551.08	377210.917	2046792.366	
11310	548.53	377261.177	2046841.965	551.08	377235.423	2046821.455	
11340	548.53	377282.578	2046866.632	551.07	377258.896	2046844.275	
11370	548.53	377309.873	2046885.566	551.07	377278.739	2046870.500	
11400	548.52	377337.978	2046903.908	551.06	377306.228	2046889.238	
11430	548.52	377362.595	2046925.327	551.06	377334.162	2046906.509	
11460	548.51	377381.968	2046952.159	551.06	377359.694	2046928.332	
11490	548.51	377401.356	2046978.756	551.05	377377.850	2046956.297	
11520	548.51	377421.966	2047004.341	551.05	377397.966	2046982.137	
11550	548.50	377443.443	2047029.044	551.05	377417.694	2047008.590	





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE -  
SANGAM BRIDGE - YERWADA BRIDGE  
(CH. 6/300 TO 17/730.)**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Left side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line			Red Line			Remarks
	R.L.	East	North	R.L.	East	North	
11580	548.50	377459.028	2047051.374	551.04	377440.637	2047031.831	
11610	548.49	377481.435	2047076.338	551.04	377456.882	2047053.167	
11640	548.49	377495.898	2047092.452	551.03	377478.382	2047078.890	
11670	548.49	377508.859	2047124.291	551.03	377493.302	2047094.068	
11700	548.48	377523.328	2047153.311	551.03	377505.601	2047126.073	
11730	548.48	377539.430	2047180.710	551.02	377519.224	2047156.030	
11760	548.47	377556.617	2047207.762	551.02	377536.683	2047182.520	
11790	548.47	377572.227	2047236.224	551.01	377553.347	2047209.917	
11820	548.47	377592.946	2047262.519	550.94	377568.894	2047238.444	
11850	548.46	377611.996	2047287.562	550.87	377587.939	2047265.982	
11880	548.46	377631.794	2047313.590	550.81	377606.032	2047291.750	
11910	548.45	377664.373	2047342.562	550.72	377625.231	2047318.198	
11940	548.45	377689.005	2047364.781	550.66	377660.932	2047345.791	
11970	548.45	377712.667	2047387.395	550.58	377686.342	2047367.345	
12000	548.42	377729.548	2047419.302	550.51	377710.506	2047389.522	
12030	547.86	377759.958	2047435.633	550.44	377726.235	2047422.769	
12060	547.79	377784.809	2047456.483	550.37	377757.535	2047438.252	
12090	547.72	377821.578	2047462.111	550.30	377783.626	2047457.820	
12120	547.65	377846.257	2047474.926	550.22	377820.609	2047463.096	
12150	547.58	377865.191	2047497.379	550.15	377843.467	2047477.301	
12180	547.51	377882.077	2047522.954	550.08	377861.289	2047500.612	
12210	547.44	377897.650	2047549.229	550.01	377879.820	2047524.852	





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE -  
SANGAM BRIDGE - YERWADA BRIDGE  
(CH. 6/300 TO 17/730.)**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Left side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line			Red Line			Remarks
	R.L.	East	North	R.L.	East	North	
12240	547.37	377914.378	2047576.792	549.94	377895.967	2047550.643	
12270	547.30	377932.102	2047602.906	549.87	377912.574	2047578.316	
12300	547.23	377948.936	2047628.222	549.80	377929.807	2047604.828	
12330	547.16	377965.025	2047653.882	549.72	377946.223	2047630.493	
12360	547.09	377980.408	2047678.416	549.65	377962.280	2047656.180	
12390	547.02	377993.826	2047701.173	549.58	377977.451	2047680.787	
12420	546.95	378003.634	2047717.479	549.51	377991.205	2047703.096	
12450	546.88	378019.721	2047740.006	549.44	378001.044	2047718.873	
12480	546.81	378038.196	2047761.476	549.37	378016.638	2047741.604	
12510	546.74	378061.189	2047782.515	549.30	378035.260	2047762.954	
12540	546.67	378074.927	2047806.279	549.22	378056.398	2047784.916	
12570	546.60	378087.158	2047837.011	549.15	378071.762	2047807.705	
12600	546.53	378109.875	2047864.226	549.08	378076.382	2047842.479	
12630	546.46	378131.317	2047889.814	549.01	378108.391	2047865.109	
12660	546.39	378146.336	2047918.496	548.94	378126.572	2047893.011	
12690	546.32	378166.080	2047947.287	548.87	378143.187	2047920.758	
12720	546.25	378187.578	2047975.493	548.80	378162.703	2047950.239	
12750	546.18	378210.874	2047995.845	548.72	378186.120	2047976.984	
12780	546.11	378231.579	2048019.052	548.65	378210.201	2047996.541	
12810	546.04	378250.643	2048042.868	548.58	378229.972	2048020.714	
12840	545.97	378270.094	2048065.757	548.51	378249.050	2048044.466	
12870	545.90	378287.699	2048088.059	548.44	378268.309	2048067.514	





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE - SANGAM BRIDGE - YERWADA BRIDGE**  
**(CH. 6/300 TO 17/730)**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Left side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line			Red Line			Remarks
	R.L.	East	North	R.L.	East	North	
12900	545.83	378310.885	2048107.934	548.37	378286.598	2048089.101	
12930	545.76	378333.656	2048129.206	548.29	378306.467	2048112.164	
12960	545.69	378355.593	2048150.934	550.22	378327.423	2048135.272	
12990	545.69	378378.100	2048170.574	548.15	378348.997	2048157.373	
13020	545.69	378402.806	2048192.180	548.08	378368.985	2048179.316	
13050	545.33	378431.657	2048209.844	548.08	378393.510	2048201.073	
13080	545.29	378445.402	2048249.776	548.07	378415.621	2048227.030	
13110	545.26	378480.852	2048258.925	548.06	378439.422	2048257.422	
13140	545.23	378510.493	2048278.490	548.05	378473.209	2048270.783	
13170	545.19	378556.860	2048290.129	548.04	378508.995	2048281.474	
13200	545.16	378588.491	2048289.881	548.03	378556.555	2048291.409	
13230	545.12	378629.520	2048286.952	548.02	378589.182	2048294.211	
13260	545.09	378662.663	2048282.852	548.00	378629.031	2048292.597	
13290	545.05	378693.501	2048293.360	547.98	378661.761	2048292.181	
13320	545.02	378721.069	2048309.341	547.96	378691.859	2048306.111	
13350	544.98	378750.909	2048320.411	547.94	378719.045	2048319.495	
13380	544.95	378784.285	2048324.941	547.92	378748.624	2048330.429	
13410	544.91	378816.668	2048330.922	547.90	378780.682	2048341.511	
13440	544.88	378848.221	2048339.224	547.88	378812.502	2048349.931	
13470	544.84	378876.038	2048349.247	547.86	378843.907	2048358.242	
13500	544.81	378904.762	2048360.839	547.84	378871.017	2048366.248	
13530	544.77	378932.091	2048371.851	547.82	378900.597	2048373.244	





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE - SANGAM BRIDGE - YERWADA BRIDGE**  
**(CH. 6/300 TO 17/730 )**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Left side of Mutha River,  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line			Red Line			Remarks
	R.L.	East	North	R.L.	East	North	
13560	544.73	378959.260	2048382.721	547.80	378927.209	2048383.967	
13590	544.70	378988.339	2048394.515	547.78	378953.414	2048394.983	
13620	544.67	379018.290	2048406.717	547.76	378981.548	2048407.766	
13650	544.63	379048.640	2048419.106	547.74	379010.705	2048421.013	
13680	544.54	379078.399	2048431.273	547.72	379040.339	2048434.477	
13710	544.56	379110.518	2048440.578	547.70	379066.848	2048451.610	
13740	544.53	379133.007	2048460.805	547.68	379093.555	2048469.630	
13770	544.49	379156.610	2048473.561	547.66	379114.189	2048488.132	
13800	544.46	379180.593	2048496.158	547.64	379129.641	2048502.623	
13830	544.42	379205.083	2048517.846	547.62	379153.227	2048524.743	
13860	544.39	379226.834	2048542.381	547.60	379176.820	2048546.870	
13890	544.35	379247.134	2048569.113	547.58	379200.464	2048569.046	
13920	544.32	379268.588	2048595.216	547.56	379223.161	2048593.612	
13950	544.28	379289.308	2048620.330	547.54	379245.955	2048618.928	
13980	544.25	379311.621	2048644.510	547.52	379268.811	2048641.302	
14010	544.23	379338.614	2048664.502	547.37	379292.741	2048663.676	
14040	544.19	379366.431	2048683.659	547.37	379317.178	2048686.501	
14070	544.19	379392.122	2048701.431	547.34	379342.683	2048708.368	
14100	544.18	379391.271	2048749.954	547.32	379359.498	2048735.374	
14130	544.18	379409.722	2048773.543	547.30	379369.151	2048768.858	
14160	544.17	379432.953	2048793.621	547.27	379387.611	2048792.429	
14190	544.17	379454.648	2048813.776	547.25	379407.086	2048815.544	





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE -  
SANGAM BRIDGE - YERWADA BRIDGE  
(CH. 6/300 TO 17/730)**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Left side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line		Red Line		Remarks	
	R.L.	East	North	R.L.		East
14220	544.16	379475.874	2048835.103	547.23	379423.484	2048840.221
14250	544.16	379495.818	2048857.241	547.20	379438.624	2048866.631
14280	544.15	379521.588	2048874.872	547.18	379456.316	2048890.306
14310	544.15	379544.140	2048894.777	547.16	379476.833	2048912.482
14340	544.14	379562.624	2048918.368	547.14	379496.851	2048934.117
14370	544.14	379578.313	2048944.399	547.11	379517.227	2048956.140
14400	544.13	379594.152	2048971.357	547.09	379526.791	2048987.266
14430	544.13	379604.900	2049001.756	547.07	379536.361	2049021.539
14460	544.12	379619.445	2049012.236	547.04	379544.875	2049052.248
14490	544.12	379639.501	2049035.361	547.02	379545.357	2049054.104
14520	544.11	379642.853	2049048.531	547.00	379549.264	2049069.812
14550	544.11	379643.549	2049060.499	546.97	379551.850	2049080.206
14580	544.10	379645.700	2049090.751	546.95	379552.705	2049083.644
14610	544.10	379648.120	2049121.024	546.93	379560.334	2049114.314
14640	544.09	379649.371	2049148.118	546.91	379567.180	2049141.837
14670	545.09	379649.907	2049172.475	546.88	379576.117	2049177.765
14700	545.08	379650.567	2049202.505	546.86	379583.468	2049207.316
14730	545.08	379651.227	2049232.535	546.84	379590.818	2049236.866
14760	544.07	379651.887	2049262.564	546.81	379598.169	2049266.416
14790	544.07	379652.546	2049292.594	546.79	379605.519	2049295.966
14820	545.06	379653.206	2049327.277	546.77	379612.869	2049325.516
14850	545.06	379655.012	2049404.762	546.74	379636.772	2049421.609





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE -  
SANGAM BRIDGE - YERWADA BRIDGE  
(CH. 6/300 TO 17/730 )**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Left side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line		Red Line		Remarks
	R.L.	East	North	East	
14880	545.05	379655.891	2049444.788	379645.033	2049454.818
14910	545.05	379656.771	2049484.815	379653.293	2049488.027
14940	545.40	379679.403	2049504.749	379667.860	2049515.411
14970	545.04	379694.722	2049531.439	379689.292	2049536.455
15000	544.03	379716.559	2049552.108	379713.011	2049555.385
15030	543.73	379740.065	2049571.236	379735.663	2049575.302
15060	543.72	379783.911	2049571.577	379763.277	2049590.635
15090	543.72	379799.387	2049598.121	379786.324	2049610.187
15120	543.71	379809.755	2049629.383	379807.227	2049631.775
15150	543.71	379817.085	2049644.616	379814.600	2049646.469
15180	543.70	379829.809	2049671.056	379828.241	2049673.720
15210	543.70	379840.270	2049702.173	379838.165	2049703.744
15240	543.69	379853.544	2049729.698	379848.765	2049733.262
15270	543.69	379865.807	2049757.977	379860.121	2049762.217
15300	543.68	379888.714	2049778.317	379872.114	2049790.697
15330	543.68	379894.860	2049811.158	379886.691	2049817.251
15360	543.67	379922.481	2049827.983	379906.540	2049839.871
15390	543.67	379943.151	2049854.425	379931.086	2049863.856
15420	543.66	379961.213	2049878.384	379950.876	2049886.464
15450	543.66	379981.328	2049900.738	379973.394	2049906.940
15480	543.65	380003.363	2049921.591	379993.617	2049929.210
15510	543.65	380022.311	2049944.857	380014.232	2049951.173





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE -  
SANGAM BRIDGE - YERWADA BRIDGE  
(CH. 6/300 TO 17/730 )**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Left side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line			Red Line			Remarks
	R.L.	East	North	R.L.	East	North	
15540	543.64	380042.370	2049967.256	546.22	380028.813	2049977.853	
15570	543.64	380059.781	2049991.724	546.19	380039.917	2050007.252	
15600	543.63	380081.471	2050012.847	546.17	380065.795	2050025.101	
15630	543.64	380120.302	2050042.942	546.15	380106.485	2050051.549	
15660	543.62	380154.213	2050069.224	546.12	380147.176	2050077.997	
15690	543.62	380178.853	2050086.451	546.10	380172.913	2050093.856	
15720	543.61	380202.685	2050104.686	546.08	380198.618	2050109.756	
15750	543.61	380224.516	2050125.416	546.05	380213.259	2050139.450	
15780	543.60	380236.430	2050158.508	546.03	380220.181	2050178.768	
15810	543.60	380259.842	2050177.267	546.01	380242.007	2050199.503	
15840	543.59	380281.625	2050198.057	545.98	380263.285	2050220.922	
15870	543.59	380307.499	2050213.745	545.96	380284.707	2050242.162	
15900	543.58	380358.364	2050233.575	545.94	380331.467	2050281.730	
15930	543.57	380385.188	2050247.072	545.92	380356.738	2050298.006	
15960	543.57	380412.116	2050260.383	545.89	380382.930	2050312.636	
15990	543.56	380439.947	2050272.076	545.87	380410.386	2050325.000	
16020	543.56	380467.744	2050283.831	545.85	380437.749	2050337.532	
16050	543.56	380494.496	2050297.457	545.82	380465.112	2050350.063	
16080	543.55	380523.524	2050307.007	545.80	380492.475	2050362.594	
16110	543.55	380552.888	2050315.957	545.78	380518.667	2050377.224	
16140	543.54	380605.457	2050332.091	545.76	380588.792	2050389.917	
16170	543.54	380634.341	2050340.200	545.73	380617.618	2050398.225	





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE -  
SANGAM BRIDGE - YERWADA BRIDGE  
(CH. 6/300 TO 17/730.)**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Left side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line			Red Line			Remarks
	R.L.	East	North	R.L.	East	North	
16200	543.53	380663.257	2050348.200	545.71	380646.445	2050406.533	
16230	543.53	380692.221	2050356.030	545.69	380675.871	2050412.763	
16260	543.52	380721.170	2050363.914	545.66	380705.844	2050417.093	
16290	543.52	380750.480	2050370.543	545.64	380734.670	2050425.401	
16320	543.51	380780.118	2050376.037	545.62	380764.977	2050428.574	
16350	543.51	380809.682	2050381.785	545.60	380793.803	2050436.882	
16380	543.50	380836.275	2050387.066	545.57	380817.219	2050446.157	
16410	543.50	380865.283	2050394.860	545.55	380844.986	2050457.799	
16440	543.49	380893.700	2050404.486	545.53	380873.884	2050465.933	
16470	543.49	380921.471	2050416.114	545.50	380902.985	2050473.437	
16500	543.48	380950.420	2050424.091	545.48	380931.537	2050482.645	
16530	543.48	380978.452	2050434.911	545.46	380961.144	2050488.582	
16560	543.47	381002.098	2050459.334	545.44	380989.390	2050498.739	
16590	543.47	381029.277	2050472.798	545.41	381017.218	2050510.193	
16620	543.46	381057.829	2050482.006	545.39	381044.906	2050522.079	
16650	543.46	381085.963	2050492.510	545.37	381072.617	2050533.893	
16680	543.89	381113.020	2050506.354	545.34	381100.330	2050545.703	
16710	543.45	381136.673	2050517.762	545.32	381123.201	2050555.450	
16740	543.44	381165.195	2050527.098	545.30	381150.848	2050567.231	
16770	543.44	381193.599	2050536.765	545.27	381178.489	2050579.031	
16800	543.43	381221.848	2050546.864	545.25	381206.123	2050590.851	
16830	543.43	381250.652	2050555.409	545.23	381233.812	2050602.515	





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE -  
SANGAM BRIDGE - YERWADA BRIDGE  
(CH. 6/300 TO 17/730 )**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Left side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line			Red Line			Remarks
	R.L.	East	North	R.L.	East	North	
16860	543.42	381279.106	2050564.936	545.34	381261.447	2050614.334	
16890	543.42	381309.250	2050569.735	545.32	381289.091	2050626.125	
16920	543.41	381334.124	2050589.275	545.84	381316.795	2050637.748	
16950	543.41	381361.814	2050600.938	545.80	381344.855	2050648.376	
16980	543.40	381391.884	2050605.943	545.77	381370.779	2050662.093	
17010	543.40	381420.996	2050613.628	545.71	381395.792	2050684.130	
17040	543.39	381450.187	2050621.092	545.07	381417.677	2050712.032	
17070	543.39	381478.431	2050631.205	545.04	381438.515	2050742.862	
17100	543.38	381506.122	2050642.866	545.02	381466.698	2050753.144	
17130	543.38	381551.742	2050656.892	545.00	381543.195	2050700.125	
17160	543.37	381580.794	2050665.696	544.98	381578.631	2050675.564	
17190	543.37	381611.263	2050665.191	544.95	381610.949	2050666.778	
17220	543.36	381640.482	2050672.078	544.93	381640.090	2050674.057	
17250	543.36	381669.481	2050680.076	544.91	381669.268	2050681.155	
17280	543.35	381699.143	2050684.726	544.88	381698.878	2050686.066	
17310	543.35	381728.823	2050689.278	544.86	381728.308	2050691.884	
17340	543.34	381757.412	2050699.352	544.84	381756.945	2050701.716	
17370	543.34	381786.138	2050708.735	544.81	381786.081	2050709.026	
17400	543.33	381814.885	2050718.010	544.79	381814.314	2050720.900	
17430	543.33	381845.013	2050725.957	544.77	381844.527	2050728.530	
17460	543.32	381874.491	2050731.529	544.74	381874.251	2050732.801	
17490	543.32	381903.914	2050737.393	544.72	381903.547	2050739.335	





**MARKING OF HFL LINE OF MUTHA RIVER FROM NH-4 BY-PASS - MHATRE BRIDGE -  
SANGAM BRIDGE - YERWADA BRIDGE  
(CH. 6/300 TO 17/730 )**

**Statement of Levels (R.L.), Lat-Long co-ordinates of Blue & Red Line  
for Left side of Mutha River.  
(Universal Traverse Mercator) - 43 Q**

Chainage	Blue Line		Red Line		Remarks
	R.L.	East	North	East	
17520	543.31	381933.392	2050742.964	381933.015	2050744.959
17550	543.31	381962.880	2050748.485	381962.420	2050750.919
17580	543.30	381991.824	2050756.884	381991.342	2050759.431
17610	543.30	382022.141	2050758.014	382020.820	2050765.003
17640	543.30	382050.802	2050767.908	382049.750	2050773.478
17670	543.29	382080.578	2050771.904	382079.737	2050776.355
17700	543.28	382110.721	2050773.960	382109.725	2050779.231
17730	543.28	382141.145	2050774.528	382139.688	2050782.233



*[Signature]*  
**Executive Engineer**  
Khadakwasla Irrigation Division, Pune-11.

*[Signature]*  
**Sub Divisional Engineer**  
Mutha Canal Irrigation Sub Dn  
Pune 411 037.

*[Signature]*  
**Sectional Engineer**  
Kothrud Irigation Section  
Erandwana Pune-38