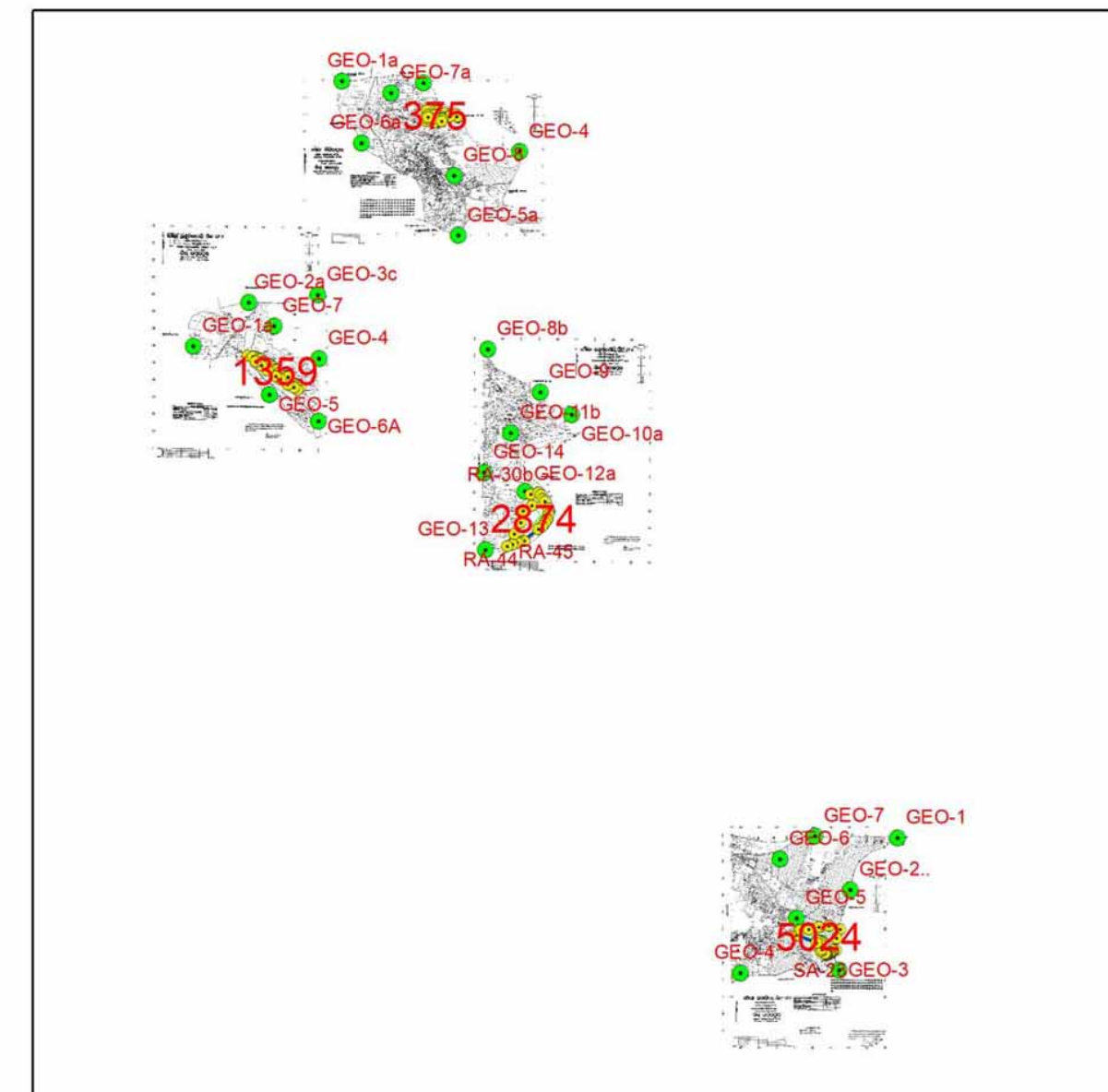


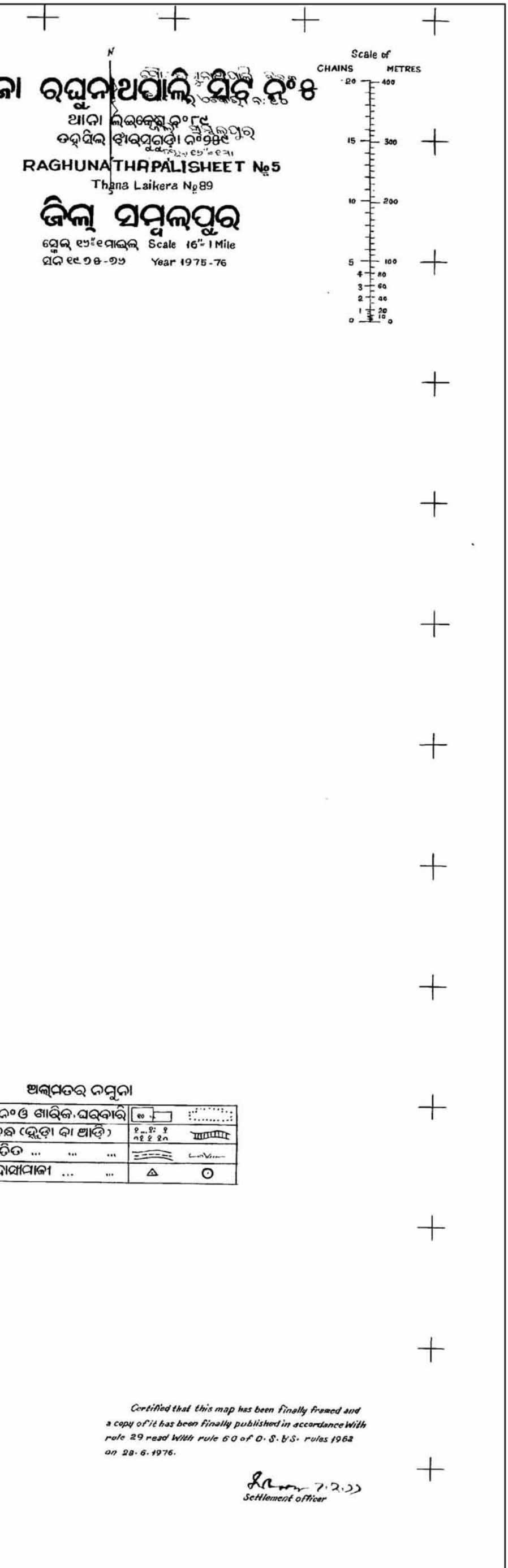
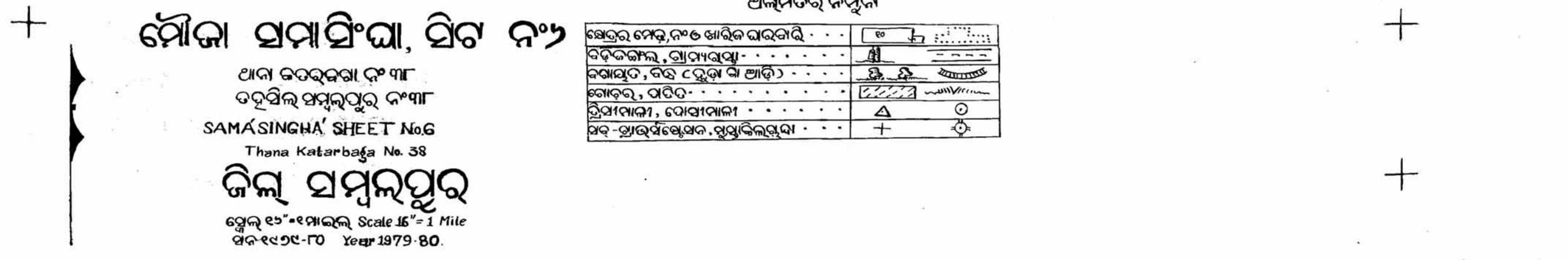
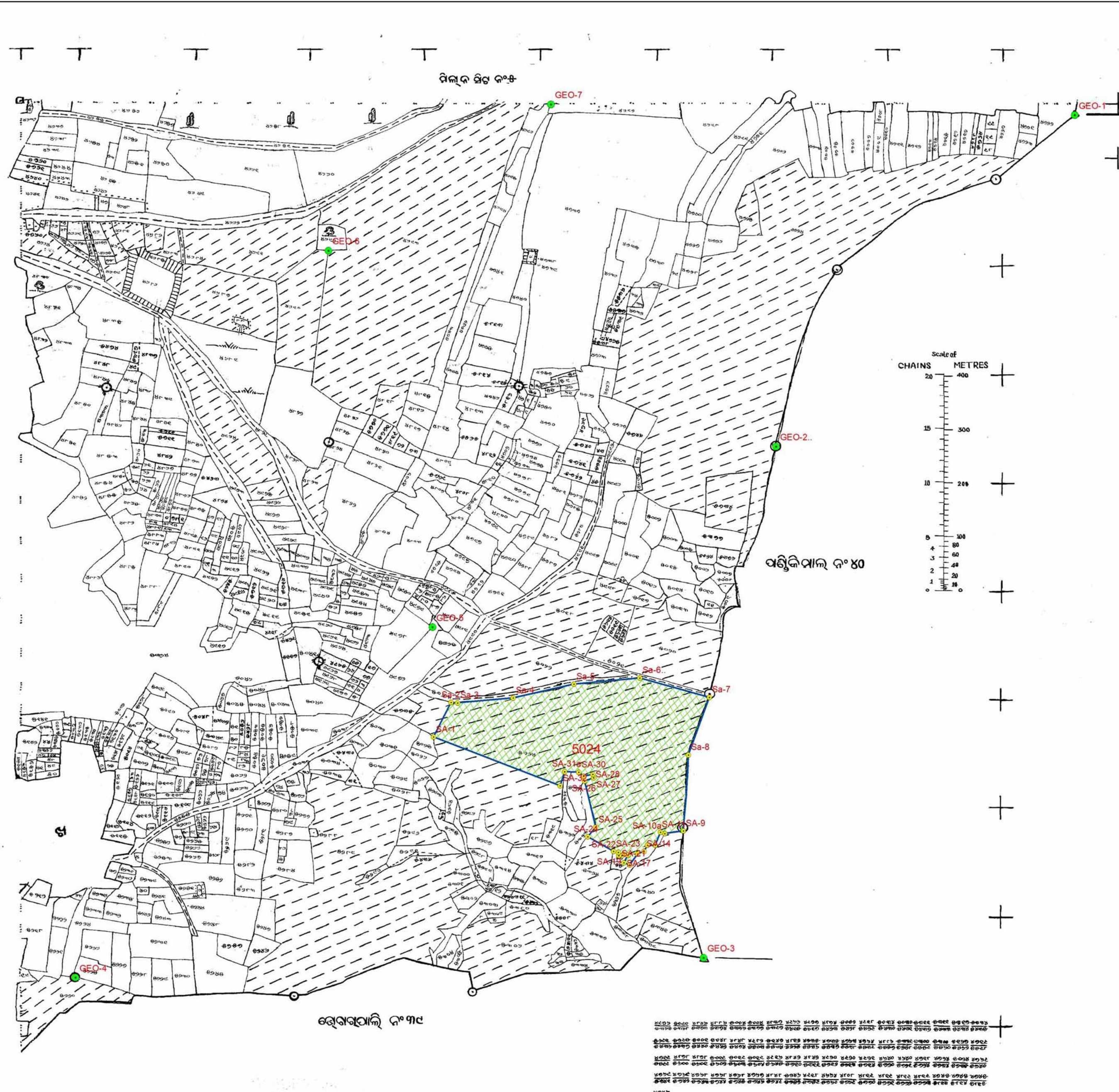
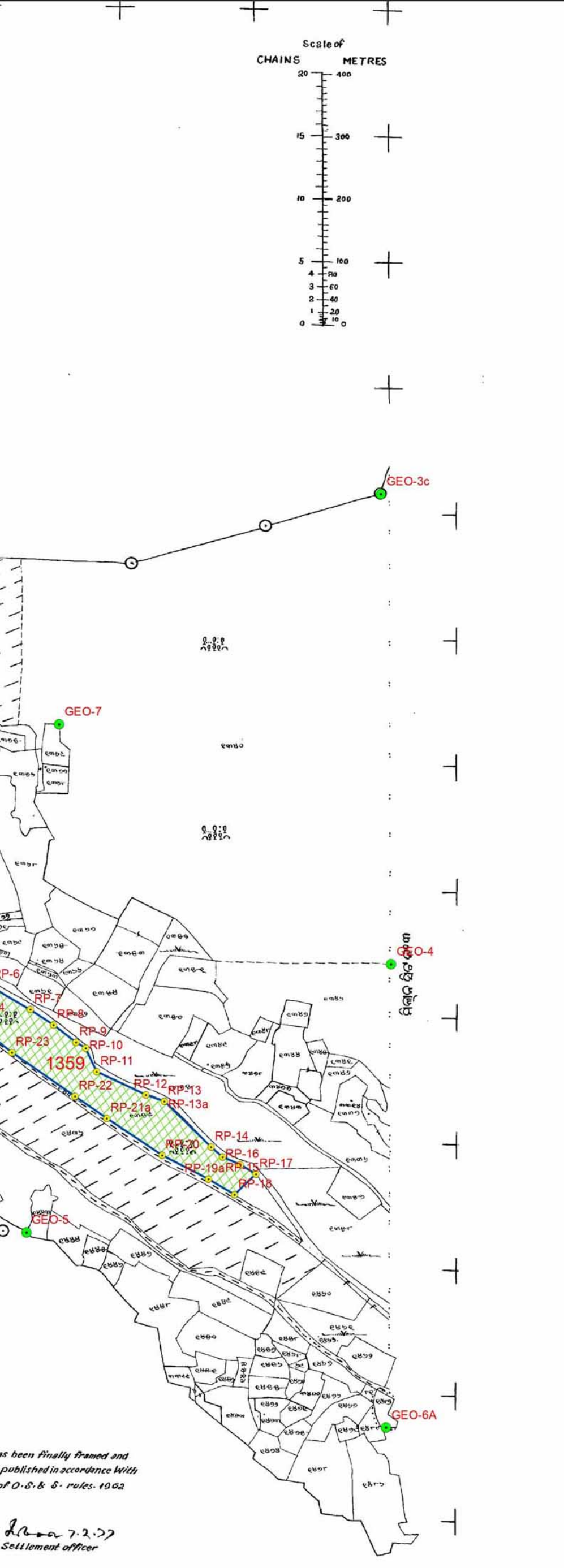
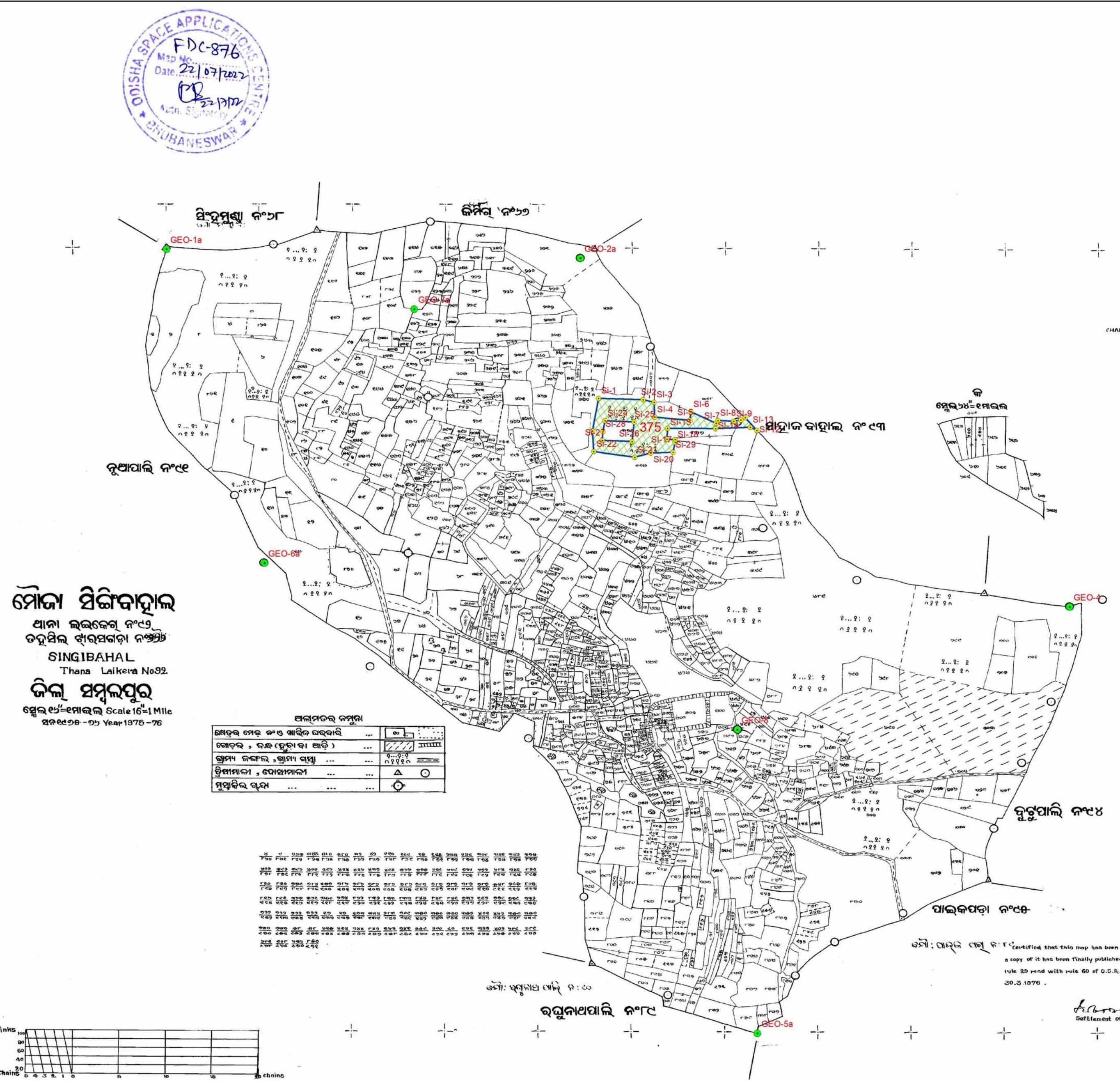
INDEX MAP SHOWING COMPENSATORY AFFORESTATION AREA (26.955HA) IN VILLAGE :RAGHUNATHPALI, SAMASINGHA & SINGIBAHAL UNDER KOLABIRA TAHASIL OF JHARSUGUDA DISTRICT IN LIEU OF DIVERSION OF FOREST LAND OF 13.465 HA FOR CONSTRUCTION OF 132KV D/C TRANSMISSION LINE FROM BRAJARAJNAGAR TO LAKHANPUR BY OPTCL UNDER JHARSUGUDA FOREST DIVISION.



CA LAND -BRAJARAJNAGAR-LAKHANPUR-OPTCL-CEMC

- DGPS Survey of proposed Compensatory Afforestation land in Raghunathpatti, Singhalhal and Samasimang villages under Kolabara Taluk, Jharsuguda district in lieu of forest areas proposed for destruction for construction of 133KV DC Transmission line from Barampukur to proposed 132.3KV Grid Sub-station, Kadalak, Lakshmanpur, Jharsuguda district by the Dy. General Manager (Elect), EHT, DCE, Transmision, OPCL. Jharsuguda has been carried out through M's Centre for Envotech and Management Consultancy Pvt.Ltd., Bhubaneswar.
- DGPS survey co-ordinates are verified by ORSAC. Also map showing identified Compensatory land verified with surveyed points & compared with ortho rectified Cartosat-1 satellite image and found that maps are correct at a confidence level of 95%.
- All the Barampukur to proposed 132.3KV land comes under Revenue forest category Raghunathpatti, Singhalhal&Samasimangvillages under Kolabara Taluk, Jharsuguda district.
- Total Compensatory Afforestation area works out to 26.955Ha. from the submitted slip against the allotted area of 26.964/ha. 66.72% as per submitted record.
- Map showing village/plot wise Compensatory Afforestation areas are attached here with.

STATISTICS OF COMPENSATORY AFFORESTATION LAND IN VILLAGE RAGHUNATHPURI, SINGIRAHALI, SAMANGINGI AREA OF FOREST AREAS PROPOSED FOR DEBRASSAN CONSTRUCTION OF 132KV DC TRANSMISSION LINE ON BRIDGE/INTEGRATED TO PROPOSED 132KV/230KV GRID SUBSTATION (TUDADI), LAKHANPUR OF MY OFPTCL IN JHAJISAGUDA DISTRICT						
SL. NO.	VILLAGE NAME	PLOT NO.	KISSAM	ALLOTTED AREA (HA.)	ALLOTTED AREA (HA. (CONV))	MAP AREA (HA.)
1	RAGHUNATHPURI - 1	2874	GRAMYA JUNGLE	30.956	12.482	12.482
2	RAGHUNATHPURI - 2	1359	PATRA JUNGLE	9.526	3.855	3.855
3	SINGIRAHALI - 3	3755	PATRA JUNGLE	5.013	2.029	2.029
4	SAMASINGI	5024	JUNGLE	21.225	8.589	8.589
TOTAL CA LAND AREA				66.72	26.956	26.955



*Certified that this map has been finally proved and
a copy of it has been finally published in accordance with
rule 31 of said rules rule 42 of D. C. C.; rules 168
and 346 of 1976.*

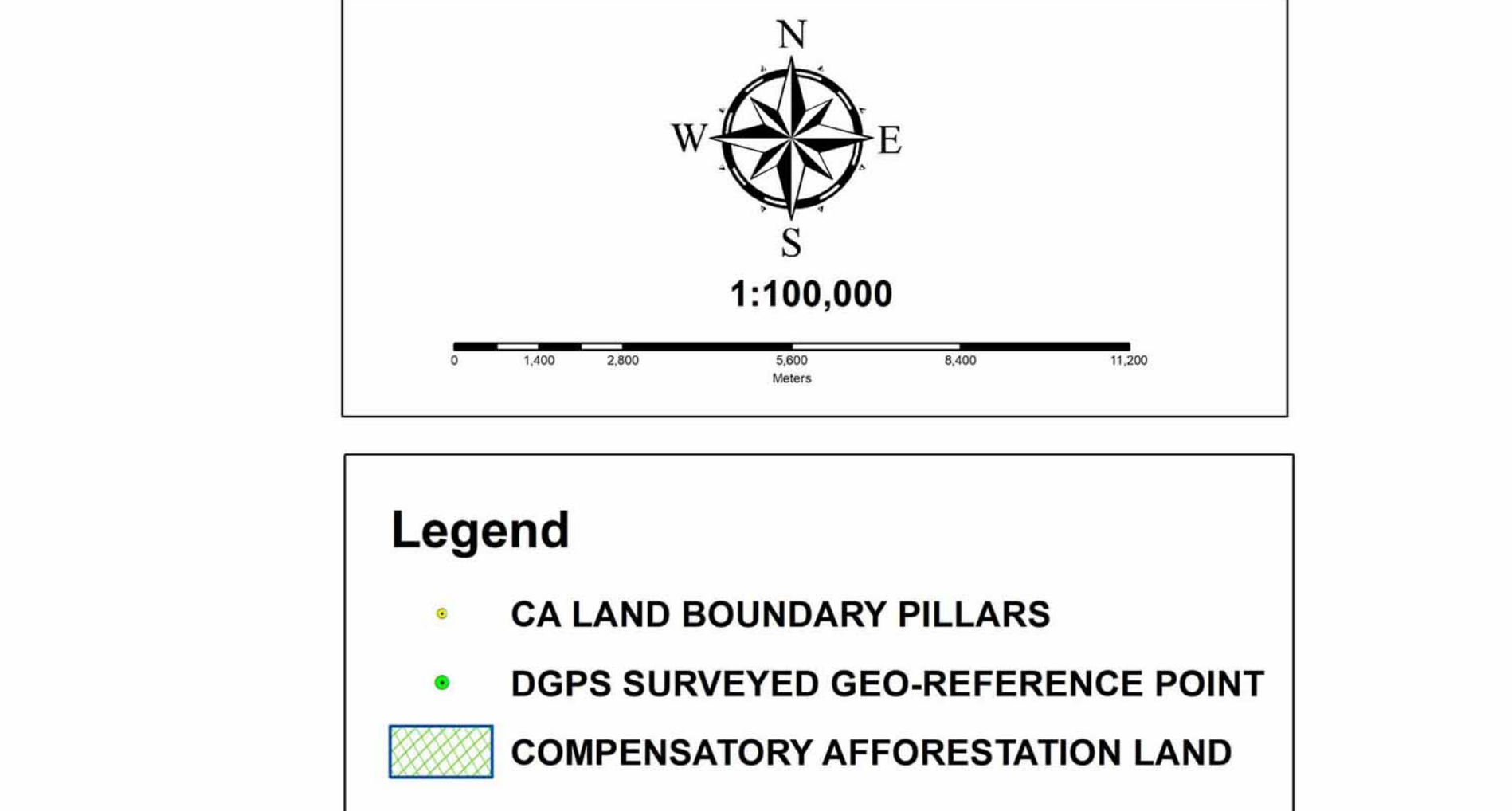
William F. Dwyer
Deftendant's Attorney

POINT ID	COORDINATES OF THE LCA ON LAND BOUNDARY POINTS (RAGNARSSON SHEET 2)
1	"49°04'45.12533" "19°58'29.94428" 206885.155 2417029.654
2	"49°05'26.25656" "19°49'17.10376" 207523.307 2416508.691
3	"49°10'17.41749" "19°43'31.14378" 207885.668 2416238.622
4	"49°04'50.34478" "19°46'26.19519" 206022.949 2416037.149
5	"49°04'59.03047" "19°49'03.70634" 207065.658 2415342.991
6	"49°04'44.26948" "19°48'31.31755" 206616.918 2414661.302
7	"49°04'37.75513" "19°48'02.64848" 206218.145 2414000.232
8	"49°10'16.60007" "19°49'02.64848" 207128.145 2415308.507
9	"49°04'50.55688" "19°49'03.30420" 207122.334 2415327.327
10	"49°04'48.0441" "19°49'02.23114" 207122.334 2415293.655
11	"49°06'26.12912" "19°49'07.72355" 207523.307 2415246.486
12	"49°10'07.14913" "18°49'59.79024" 207284.83 2415217.663
13	"49°08'58.5721" "18°49'56.98976" 207224.855 2415130.596
14	"49°08'59.59979" "18°49'56.17476" 207224.855 2415105.862
15	"49°08'59.59979" "18°49'56.17476" 207224.855 2415105.862
16	"49°08'03.7319" "18°49'53.10676" 207306.571 2415011.614
17	"49°07'69.6987" "18°48'52.46212" 207298.523 2414981.828
18	"49°10'19.9040" "18°48'51.66033" 207281.671 2414967.456
19	"49°05'22.98187" "18°48'50.35968" 207285.964 2414920.074
20	"49°10'42.22269" "18°48'25.95709" 207523.149 2414884.827
21	"49°05'22.98187" "18°48'44.68820" 207248.238 2414757.123
22	"49°05'22.98187" "18°48'44.68820" 207248.238 2414757.123
23	"49°06'56.75544" "18°48'35.95275" 206969.253 2414736.214
24	"49°04'54.76554" "18°48'33.36044" 206193.683 2414718.357
25	"49°05'52.61224" "18°48'44.68820" 206467.400 2414697.719
26	"49°05'52.61224" "18°48'44.68820" 206467.400 2414697.719
27	"49°05'57.85692" "18°48'51.74352" 207036.421 2414974.952
28	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
29	"49°10'02.12945" "18°48'58.30708" 207319.752 2414517.673
30	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
31	"49°10'19.9040" "18°48'51.66033" 207281.671 2414508.946
32	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
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41	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
42	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
43	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
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49	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
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51	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
52	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
53	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
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68	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
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70	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
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72	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
73	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
74	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
75	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
76	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
77	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
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81	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
82	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
83	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
84	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
85	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
86	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
87	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
88	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
89	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
90	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
91	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
92	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
93	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
94	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
95	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
96	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
97	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
98	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
99	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946
100	"49°08'58.6144" "18°48'56.11197" 207329.639 2414508.946

NO.	POINT ID	LONGITUDE	LATITUDE	EASTING	NORTHING
1	84*U*04.55698"	"41*09'03.30420"	27212.334	152337.166	
2	84*U*05.28411"	"41*09'02.23114"	27238.676	152593.655	
3	84*U*06.46992"	"41*09'00.72355"	27260.072	152546.848	
4	84*U*07.14912"	"41*08'59.79024"	27284.83	152521.663	
5	84*U*08.59721"	"41*08'56.98576"	27324.855	152510.396	
6	84*U*09.51689"	"41*08'56.17476"	27360.028	152510.582	
7	84*U*10.47408"	"41*08'54.67725"	27320.011	152509.622	
8	84*U*11.08337"	"41*08'53.61391"	27320.011	152509.622	
9	84*U*12.79987"	"41*08'52.46122"	27298.252	152509.188	
10	84*U*14.09940"	"41*08'51.66033"	27281.677	152496.456	
11	84*U*15.08218"	"41*08'50.35968"	27269.149	152498.074	
12	84*U*16.92269"	"41*08'49.25765"	27250.961	152488.827	
13	84*U*19.02993"	"41*08'44.68820"	27240.238	152475.123	
14	84*U*19.57134"	"41*08'44.07833"	272687.043	152479.475	
15	84*U*19.57685"	"41*08'43.96179"	272669.253	152476.214	
16	84*U*20.00000"	"41*08'43.96179"	272669.253	152476.214	
17	84*U*22.63224"	"41*08'42.80000"	272669.253	152467.719	
18	84*U*25.35227"	"41*08'41.45150"	272669.253	152484.138	
19	84*U*27.85699"	"41*08'41.74352"	272669.253	152497.952	
20	84*U*28.58144"	"41*08'41.51197"	272669.253	152508.946	
21	84*U*28.12695"	"41*08'38.30708"	27193.751	152517.673	

GPS CO-ORDINATES OF CANAL BOUNDARY POINTS (SINGHAHALA)					
NO	POINT ID	LONGITUDE	LATITUDE	EASTING	NORTHING
1	8409 25.24274	"21°51'29.73272"	"76°06'11.96111"	2419854.031	4419854.031
2	8409 25.46735	"21°51'29.73272"	"76°06'11.96111"	2419854.031	4419854.031
3	8409 25.70594	"21°51'29.73272"	"76°06'11.96111"	2419854.031	4419854.031
4	8409 28.76561	"21°51'28.19066"	"76°06'26.62618"	2419804.746	4419804.746
5	8409 28.84273	"21°51'28.20027"	"76°06'26.62618"	2419804.746	4419804.746
6	8409 30.74445	"21°51'27.94633"	"76°06'32.93242"	2419796.144	4419796.144
7	8409 30.88861	"21°51'28.14689"	"76°06'32.93242"	2419796.144	4419796.144
8	8409 31.08054	"21°51'28.14689"	"76°06'32.93242"	2419796.144	4419796.144
9	8409 32.62066	"21°51'28.16230"	"76°06'36.97635"	2419803.453	4419803.453
10	8409 32.95474	"21°51'28.38349"	"76°06'37.96793"	2419808.418	4419808.418
11	8409 33.82832	"21°51'27.41966"	"76°06'39.21063"	2419778.294	4419778.294
12	8409 33.33141	"21°51'27.64505"	"76°06'39.21063"	2419785.494	4419785.494
13	8409 33.71533	"21°51'27.56269"	"76°06'39.21063"	2419784.348	4419784.348
14	8409 33.94390	"21°51'27.56269"	"76°06'39.21063"	2419784.348	4419784.348
15	8409 37.00390	"21°51'26.76146"	"76°06'21.83232"	2419761.636	4419761.636
16	8409 27.64979	"21°51'26.71348"	"76°06'23.33232"	2419759.843	4419759.843
17	8409 27.66396	"21°51'26.52864"	"76°06'23.33232"	2419754.147	4419754.147
18	8409 28.02538	"21°51'25.99597"	"76°06'18.90129"	2419729.613	4419729.613
19	8409 28.60713	"21°51'25.98844"	"76°06'18.90129"	2419729.613	4419729.613
20	8409 27.51071	"21°51'28.14700"	"76°06'26.62618"	2419804.746	4419804.746
21	8409 27.40135	"21°51'27.36872"	"76°06'26.62618"	2419804.746	4419804.746
22	8409 28.36038	"21°51'28.14700"	"76°06'26.62618"	2419804.746	4419804.746
23	8409 28.45603	"21°51'28.04163"	"76°06'26.62618"	2419804.746	4419804.746
24	8409 28.41642	"21°51'26.59864"	"76°06'40.31617"	2419757.735	4419757.735
25	8409 28.13910	"21°51'27.33550"	"76°06'40.31617"	2419781.909	4419781.909
26	8409 27.20136	"21°51'27.33550"	"76°06'40.31617"	2419781.909	4419781.909
27	8409 27.50398	"21°51'25.76145"	"76°06'22.68158"	2419730.623	4419730.623

GPS COORDINATES OF CA AND LAND BOUNDARY POINTS (SAMASINGHA)					
NO	POINT ID	LONGITUDE	LATITUDE	EASTING	NORTHING
1	84*11'44.79679"	121°46'15.32698"	20998.651	241005.441	
2	84*11'45.19551"	121°46'15.32698"	21000.093	241010.026	
3	84*11'48.55679"	121°46'15.50952"	21006.299	24111.61	
4	84*11'48.18407"	121°46'15.50952"	21006.299	24111.61	
5	84*11'56.15757"	121°46'16.79838"	21025.968	241044.791	
6	84*12'00.36787"	121°46'15.63578"	21046.52	241006.834	
7	84*11'59.06858"	121°46'12.71718"	21040.719	241000.901	
8	84*11'58.76210"	121°46'07.59882"	21036.843	240860.342	
9	84*11'57.65211"	121°46'07.43587"	21035.793	240855.305	
10	84*11'56.40142"	121°46'07.43587"	21035.793	240855.305	
11	84*11'57.08078"	121°46'06.73751"	21036.938	240834.714	
12	84*11'56.60552"	121°46'06.73733"	21037.272	240834.957	
13	84*11'56.39791"	121°46'06.36499"	21037.156	240823.606	
14	84*11'56.02741"	121°46'06.21087"	21036.366	240819.056	
15	84*11'55.53899"	121°46'05.55331"	21031.961	240799.14	
16	84*11'55.19197"	121°46'05.88376"	21029.064	240838.273	
17	84*11'54.62121"	121°46'05.88376"	21029.064	240838.273	
18	84*11'55.17932"	121°46'06.19797"	21029.982	240819.103	
19	84*11'55.08579"	121°46'06.10787"	21029.21	240816.38	
20	84*11'54.89223"	121°46'06.10801"	21028.659	240816.485	
21	84*11'54.85233"	121°46'06.31144"	21028.265	240822.767	
22	84*11'54.60020"	121°46'06.36494"	21027.473	240824.565	
23	84*11'54.02061"	121°46'06.36494"	21027.473	240824.565	
24	84*11'53.50050"	121°46'07.82121"	21024.628	240869.93	
25	84*11'52.82591"	121°46'05.16054"	21026.797	240955.949	
26	84*11'53.37188"	121°46'07.77984"	21028.598	240961.594	
27	84*11'53.32011"	121°46'05.10118"	21028.598	240967.874	
28	84*11'52.77233"	121°46'08.88366"	21025.413	240964.548	
29	84*11'52.48599"	121°46'08.19927"	21025.426	240997.947	
30	84*11'52.42499"	121°46'08.19927"	21025.426	240997.947	
31	84*11'51.86190"	121°46'10.30256"	21021.785	240997.485	



DGPS CO-ORDINATES OF GEO-REFERENCED POINTS (RAGHUNATHAPALI SHEET-5)					
SL NO	POINT ID	LONGITUDE	LATITUDE	EASTING	NORTHING
1	GEO-8b	84°09'45.12533"	21°49'58.29448"	206685.155	2417029.654
2	GEO-9	84°10'05.22656"	21°49'41.71076"	207253.307	2416508.693
3	GEO-10a	84°10'17.41749"	21°49'33.14378"	207598.739	2416238.622
4	GEO-11b	84°09'54.03478"	21°49'26.19519"	206922.949	2416037.145
5	GEO-12a	84°09'59.44406"	21°49'03.73064"	207065.658	2415342.993
6	GEO-13	84°09'44.26948"	21°48'41.31755"	206616.918	2415661.302
7	GEO-14	84°09'43.75513"	21°49'10.96506"	206618.944	2415573.914

DGPS CO-ORDINATES OF GEO-REFERENCED POINTS (RAGHUNATHAPALI SHEET-2)						
SL NO	POINT ID	LONGITUDE	LATITUDE	EASTING	NORTHING	
1	GEO-1a	84°07'52.19294"	21°49'59.37616"	203441.017	2417123.083	
2	GEO-2a	84°08'13.42286"	21°50'16.14278"	204060.593	2417627.693	
3	GEO-3c	84°08'39.83806"	21°50'19.22824"	204821.29	2417708.543	
4	GEO-4	84°08'40.36599"	21°49'54.70313"	204822.456	2416953.543	
5	GEO-5	84°08'12.33809"	21°49'40.71502"	204267.745	2416533.233	
6	GEO-6A	84°08'40.09668"	21°49'30.52051"	204801.002	2416209.506	

DGPS CO-ORDINATES OF GEO-REFERENCED POINTS (SINGBAHAL)					
SL NO	POINT ID	LONGITUDE	LATITUDE	EASTING	NORTHING
1	GEO-1a	84°08'49.23294"	21°51'41.10308"	205137.944	2420223.096
2	GEO-2a	84°09'20.50510"	21°51'40.42025"	206035.881	2420185.438
3	GEO-4	84°09'57.45446"	21°51'14.10167"	207082.359	2419355.937
4	GEO-5a	84°09'33.86952"	21°50'41.92667"	206386.542	2418378.313
5	GEO-6a	84°08'56.63151"	21°51'17.42017"	205336.964	2419490.352
6	GEO-7a	84°09'07.94952"	21°51'36.58552"	205673.023	2420074.108
7	GEO-8	84°09'32.36032"	21°51'04.84336"	206356.208	2419084.331

DGPS CO-ORDINATES OF GEO-REFERENCED POINTS (SAMASINGHA)					
SL NO	POINT ID	LONGITUDE	LATITUDE	EASTING	NORTHING
1	GEO-1	84°12'22.30828"	21°46'50.65529"	211096.536	2411173.011
2	GEO-2..	84°12'04.33600"	21°46'30.71660"	210568.861	2410568.818
3	GEO-3	84°11'59.97451"	21°45'59.97026"	210426.338	2409624.964
4	GEO-4	84°11'22.20759"	21°45'58.77836"	209340.088	2409608.012
5	GEO-5	84°11'43.67517"	21°46'19.85348"	209968.943	2410245.317
6	GEO-6	84°11'37.41576"	21°46'42.50286"	209801.701	2410945.558
7	GEO-7	84°11'50.80271"	21°46'51.30240"	210191.386	2411209.346

AREA STATISTICS						
SL. NO.	VILLAGE NAME	PLOT NO.	KISSAM	ALLOTTED AREA AC.	ALLOTTED AREA HA.(CONV)	MAP AREA HA
1	RAGHUNATHPALI -5	2874	GRAMYA JUNGLE	30.956	12.482	12.482
2	RAGHUNATHPALI -2	1359	PATRA JUNGLE	9.526	3.855	3.855
3	SINGIBAHAL	375	PATRA JUNGLE	5.013	2.029	2.029
4	SAMASINGHA	5024	JUNGLE	21.225	8.589	8.589
TOTAL CA LAND AREA				66.72	26.956	26.955

PREPARED BY :-

**Centre for Envotech & Management
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