



Plate 1: Magnetic anomaly MA01 to MA69

Table AII.4 Details of the targets/objects locations

S.No	Anomaly Code	Location	UTM (Zone 42)		Geographic Location	
	MAGI		X (m)	Y (m)	Latitude	Longitude
1	MA 1	Location 1	625296.467	2550917.838	23°03'43.5486"N	70°13'23.2331"E
2	MA 2		625349.345	2550842.873	23°03'41.0969"N	70°13'25.069"E
3	MA 3	Location 2	625201.639	2550728.503	23°03'37.4186"N	70°13'19.8456"E
4	MA 4		625256.468	2550667.07	23°03'35.4064"N	70°13'21.754"E
5	MA 5		625155.846	2550672.31	23°03'35.6041"N	70°13'18.2201"E
6	MA 6	Location 3	625280.963	2550157.183	23°03'18.8219"N	70°13'22.4649"E
7	MA 7	Location 4	624989.146	2549989.445	23°03'13.4475"N	70°13'12.1629"E
8	MA 8	Location 5	625187.424	2549972.588	23°03'12.8456"N	70°13'19.1243"E
9	MA 9		625215.897	2549965.48	23°03'12.6068"N	70°13'20.1225"E
10	MA 10	Location 6	625248.402	2549839.622	23°03'8.506"N	70°13'21.2276"E
11	MA 11	Location 7	625193.949	2549783.475	23°03'6.6952"N	70°13'19.298"E
12	MA 12	Location 8	625154.524	2549691.016	23°03'3.6999"N	70°13'17.8857"E
13	MA 13	Location 9	625000.377	2549214.079	23°02'48.2351"N	70°13'12.3303"E
14	MA 14	Location 10	625254.237	2549239.215	23°02'48.9835"N	70°13'21.2564"E
15	MA 15	Location 11	625413.389	2549214.014	23°02'48.1209"N	70°13'26.8404"E
16	MA 16	Location 12	625051.136	2549014.766	23°02'41.7411"N	70°13'14.0552"E
17	MA 17	Location 13	625150.026	2549036.722	23°02'42.4282"N	70°13'17.5358"E

18	MA 18	Location 14	625149.179	2549022.448	23°02'41.9643"N	70°13'17.5019"E
19	MA 19		625354.644	2549014.803	23°02'41.6599"N	70°13'24.718"E
20	MA 20		625339.326	2549001.666	23°02'41.237"N	70°13'24.176"E
21	MA 21	Location 15	625666.963	2548712.884	23°02'31.7587"N	70°13'35.6014"E
22	MA 22	Location 16	625384.302	2548513.453	23°02'25.3516"N	70°13'25.6127"E
23	MA 23	Location 17	625495.113	2548474.33	23°02'24.0495"N	70°13'29.494"E
24	MA 24		625476.069	2548468.542	23°02'23.8665"N	70°13'28.8233"E
25	MA 25	Location 19	625624.349	2547962.431	23°02'7.371"N	70°13'33.8835"E

26	MA 26	Location 20	625383.005	2547888.558	23°02'5.0349"N	70°13'25.3836"E
27	MA 27		625365.773	2547880.445	23°02'4.7758"N	70°13'24.7758"E
28	MA 28	Location 21	625920.299	2547698.066	23°01'58.6951"N	70°13'44.2021"E
29	MA 29	Location 24	625679.99	2546698.796	23°01'26.2716"N	70°13'35.4664"E
30	MA 30	Location 26	625915.796	2545832.392	23°00'58.0381"N	70°13'43.4941"E
31	MA 31	Location 27	626168.481	2545828.204	23°00'57.8329"N	70°13'52.3683"E
32	MA 32		626164.686	2545785.495	23°00'56.4454"N	70°13'52.2224"E
33	MA 33	Location 29	626223.145	2545527.614	23°00'48.045"N	70°13'54.1995"E
34	MA 34	Location 29	625684.043	2545288.432	23°00'40.4155"N	70°13'35.194"E
35	MA 35	Location 30	625670.165	2544962.245	23°00'29.814"N	70°13'34.6107"E
36	MA 36		625642.884	2544967.617	23°00'30"N	70°13'33.6541"E
37	MA 37		625642.801	2544953.948	23°00'29.5517"N	70°13'33.6472"E
38	MA 38	Location 31	625743.53	2544897.566	23°00'27.6911"N	70°13'37.1684"E
39	MA 39		625747.523	2544882.503	23°00'27.2003"N	70°13'37.3043"E
40	MA 40		625767.96	2544863.62	23°00'26.5808"N	70°13'38.0165"E
41	MA 41	Location 32	625743.098	2544764.761	23°00'23.3734"N	70°13'37.1142"E
42	MA 42		625791.823	2544729.25	23°00'22.2055"N	70°13'38.8151"E
43	MA 43		625697.703	2544708.21	23°00'21.5471"N	70°13'35.5032"E
44	MA 44	Location 33	625665.994	2544703.962	23°00'21.4176"N	70°13'34.3883"E
45	MA 45		625885.941	2544091.122	23°00'1.4325"N	70°13'41.9329"E
46	MA 46		625856.113	2544074.507	23°00'0.9004"N	70°13'40.8804"E
47	MA 47	Location 34	625832.828	2544075.32	23°00'0.9332"N	70°13'40.0629"E
48	MA 48		625826.772	2543887.35	22°59'54.8234"N	70°13'39.7949"E
49	MA 49	Location 36	625816.545	2543697.86	22°59'48.6653"N	70°13'39.38"E
50	MA 50	Location 39	625706.754	2543410.821	22°59'39.3627"N	70°13'35.4399"E
51	MA 51	Location 45	625897.463	2543029.754	22°59'26.9212"N	70°13'42.0253"E
52	MA 52		625951.249	2543024.26	22°59'26.7279"N	70°13'43.9125"E
53	MA 53		625921.101	2543001.027	22°59'25.9808"N	70°13'42.847"E
54	MA 54	Location 48	625947.408	2542717.598	22°59'16.7585"N	70°13'43.6874"E
55	MA 55		625981.757	2542702.461	22°59'16.257"N	70°13'44.8892"E
56	MA 56	Location 50	626291.486	2542714.982	22°59'16.5796"N	70°13'55.7697"E
57	MA 57	Location 53	626299.663	2541303.045	22°58'30.6712"N	70°13'55.6404"E
58	MA 58	Location 55	626420.101	2540999.743	22°58'20.777"N	70°13'59.78"E
59	MA 59	Location 56	626744.097	2540843.187	22°58'15.5983"N	70°14'11.1101"E
60	MA 60	Location 57	626907.226	2540222.062	22°57'55.359"N	70°14'16.6541"E
61	MA 61	Location 58	627061.624	2540081.43	22°57'50.7443"N	70°14'22.0335"E
62	MA 62	Location 59	626891.57	2539739.341	22°57'39.6686"N	70°14'15.9615"E
63	MA 63	Location 61	627246.224	2538863.713	22°57'11.1021"N	70°14'28.1536"E
64	MA 64	Location 62	627150.187	2538838.245	22°57'10.3004"N	70°14'24.7744"E
65	MA 65	Location 64	627621.753	2538237.317	22°56'50.6328"N	70°14'41.1513"E
66	MA 66	Location 65	627529.949	2537986.091	22°56'42.49"N	70°14'37.8537"E
67	MA 67	Location 66	626696.937	2536881.222	22°56'6.7959"N	70°14'8.284"E
68	MA 68	Location 68	625372.714	2535616.486	22°55'26.0352"N	70°13'21.4301"E
69	MA 69	Location 69	624986.878	2535531.782	22°55'23.3853"N	70°13'7.8624"E

70	MA 70	Location 70	626507.09	2541876.75	22°58'49.26"N	70°14'3.09"E
71	MA 71	Location 73	627313.32	2539611.47	22°57'35.39"N	70°14'30.73"E
72	MA 72	Location 74	627336.48	2539472.565	22°57'30.87"N	70°14'31.50"E
73	MA 73	Location 77	627598.59	2538716.01	22°57'6.20"N	70°14'40.48"E
74	MA 74	Location 84	626661.68	2536872.6	22°56'6.52"N	70°14'7.04"E
75	MA 75	Location 85	626339.58	2536157.4	22°55'43.35"N	70°13'55.52"E
76	MA 76	Location 86	624673.24	2535609.61	22°55'26"N	70°12'56.87"E
77	MA 77	Location 89	622505.44	2533992.66	22°54'34"N	70°11'40.32"E
78	MA 78	Location 93	621462.63	2533355.17	22°54'13.55"N	70°11'3.54"E
79	MA 79	Location 92	622063.86	2533239.89	22°54'9.64"N	70°11'24.61"E
80	MA 80	Location 96	621349.38	2533031.81	22°54'3.06"N	70°10'59.47"E
81	MA 81	Location 97	621544.74	2532892.97	22°53'58.50"N	70°11'6.29"E
82	MA 82	Location 98	621057.22	2532785.26	22°53'55.12"N	70°10'49.15"E
83	MA 83	Location 101	620270.34	2532452.97	22°53'44.52"N	70°10'21.44"E
84	MA 84	Location 104	619912.49	2532195.52	22°53'36.25"N	70°10'8.81"E
85	MA 85	Location 109	618433.6	2531381.24	22°53'10.15"N	70°09'16.69"E
86	MA 86	Location 112	618267.44	2531081.81	22°53'0.46"N	70°09'10.78"E
87	MA 87	Location 114	618067.94	2530659.12	22°52'46.76"N	70°09'3.66"E
88	MA 88	Location 118	616930.77	2529875.3	22°52'21.56"N	70°08'23.54"E

AII.6. GPI Conclusion

The marine GPI carried out at inner and outer channel of Deendayal Port Trust (DPT) through SSS, SBP and MM surveys which reveals various significant results. The geophysical surveys show about 92 considerable targets on seabed by SSS, SBP study has shown about 25 buried/partially buried targets and MM survey reveals about 88 anomalies in the surveyed region. With the integration of these targets and anomalies, 88 locations are classified and marked. The seabed object maps are presented between Fig. 11 to 16.







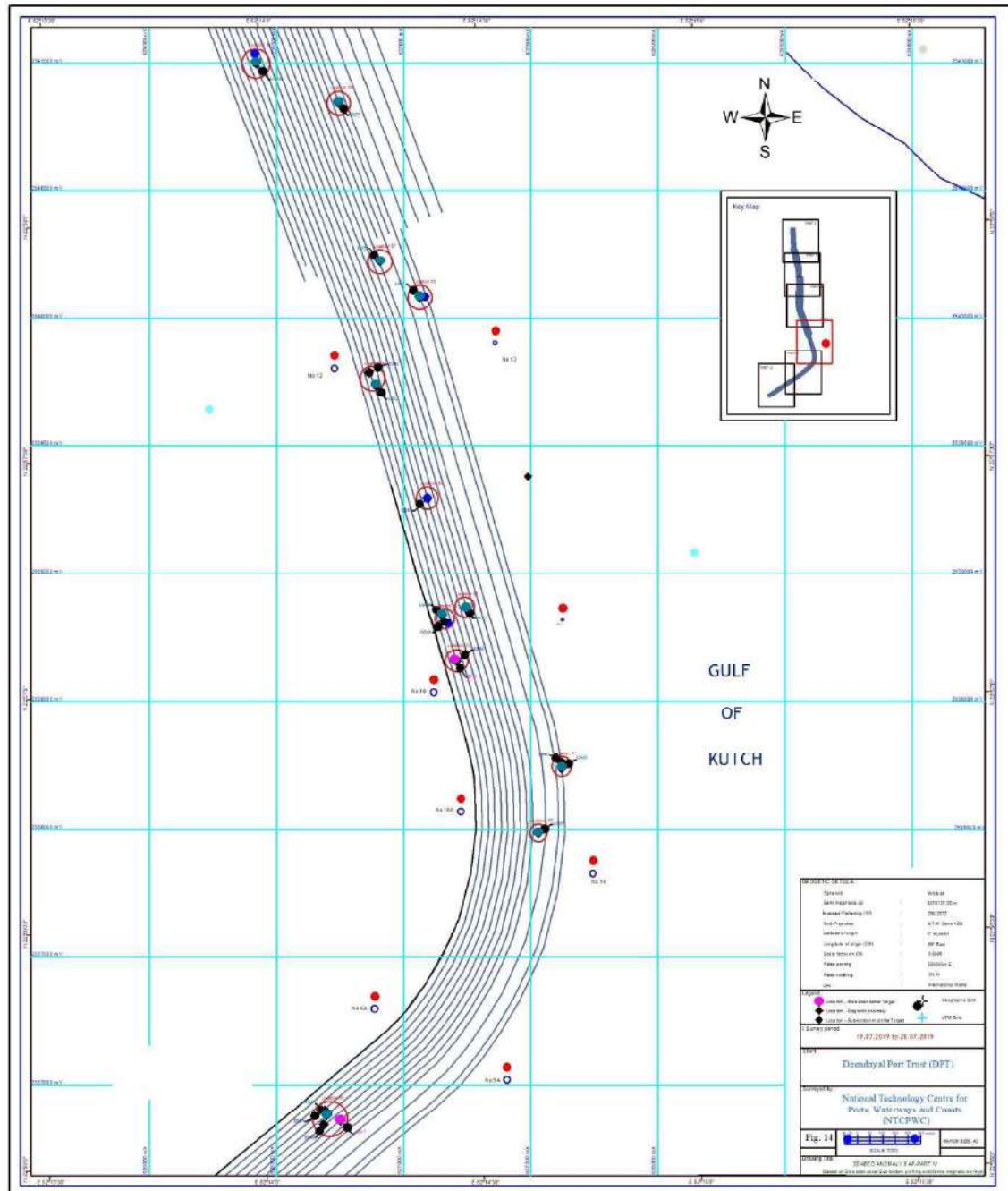


Fig. AII.14. DPT Zone 1 Seabed objects map of GPI

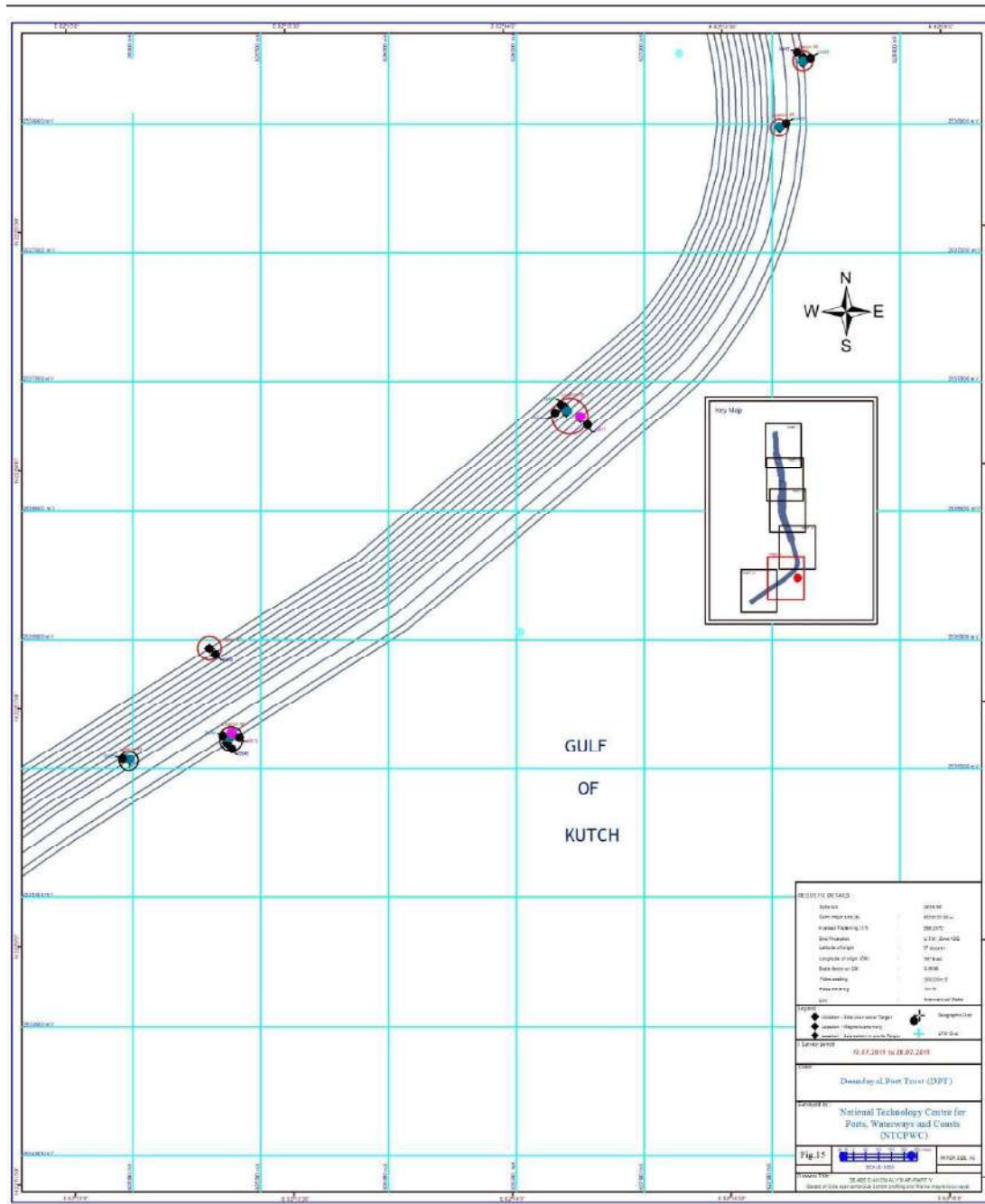


Fig. AII.15. DPT Zone 2 Seabed objects map of GPI

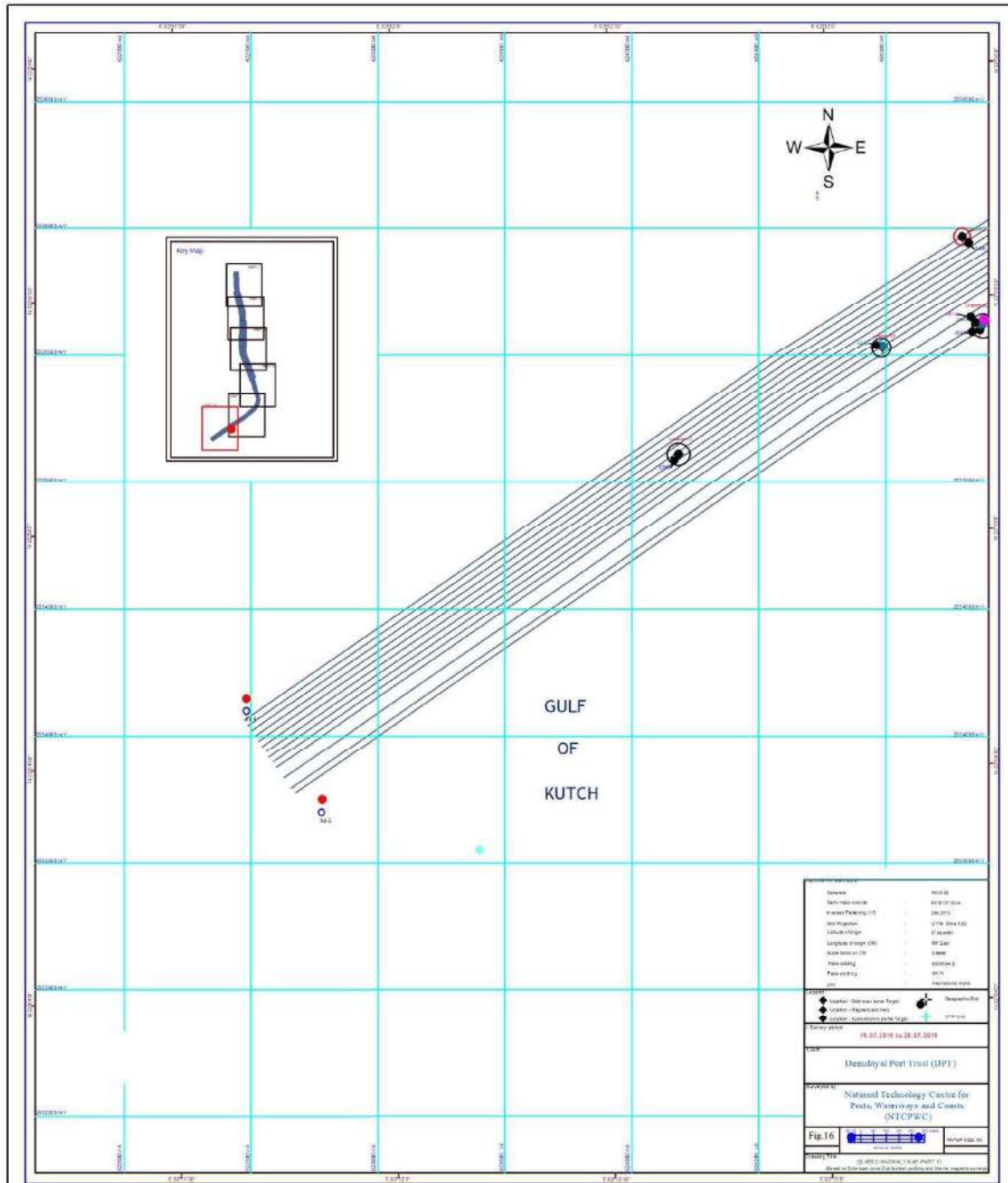


Fig. AII.16. DPT Navigational Channel Seabed objects map of GPI

The table AII.5 shows the object based on the presence anomalies identified through SSS, SBP and MM surveys. The objects identified and mapped are based on GPI. Ground-truth verification by appropriate methods mandatory in order to confirm the findings in terms of shape/material/geometry and other properties of objects/targets.

Table AII.5 Details of the targets/object based on SSS, SBP & MM

Sl.No	Locations	Side Scan Target	Sub Bottom Target	Magnetic Anomaly
1	Location 1			√
2	Location 2	√	√	√
3	Location 3			√
4	Location 4	√		√
5	Location 5			√
6	Location 6			√
7	Location 7			√
8	Location 8			√
9	Location 9			√
10	Location 10		√	√
11	Location 11			√
12	Location 12		√	√
13	Location 13	√		√
14	Location 14		√	√
15	Location 15	√	√	√
16	Location 16	√		√
17	Location 17		√	√
18	Location 18	√		
19	Location 19	√		√
20	Location 20	√		√
21	Location 21		√	√
22	Location 22	√		
23	Location 23	√		
24	Location 24			√
25	Location 25	√		
26	Location 26			√
27	Location 27	√		√
28	Location 28			
29	Location 29	√		√
30	Location 30	√		√
31	Location 31	√		√
32	Location 32	√		√
33	Location 33			√
34	Location 34	√		√
35	Location 35	√		

Sl.No	Locations	Side Scan Target	Sub Bottom Target	Magnetic Anomaly
36	Location 36			√
37	Location 37	√		
38	Location 38	√	√	
39	Location 39	√		√
40	Location 40	√	√	
41	Location 41	√		
42	Location 42	√		
43	Location 43	√		
44	Location 44	√	√	
45	Location 45			√
46	Location 46	√		
47	Location 47	√		
48	Location 48	√		√
49	Location 49	√	√	
50	Location 50	√		√
51	Location 51	√		
52	Location 52	√	√	
53	Location 53	√		√
54	Location 54	√		
55	Location 55			√
56	Location 56			√
57	Location 57			√
58	Location 58			√
59	Location 59	√		√
60	Location 60	√		
61	Location 61			√
62	Location 62	√		√
63	Location 63	√	√	
64	Location 64	√		√
65	Location 65			√
66	Location 66	√	√	√
67	Location 67	√		
68	Location 68	√	√	√
69	Location 69			√
70	Location 70			√
71	Location 71		√	
72	Location 72	√		
73	Location 73			√
74	Location 74			√
75	Location 75	√		
76	Location 76	√		
77	Location 77			√

Sl.No	Locations	Side Scan Target	Sub Bottom Target	Magnetic Anomaly
78	Location 78		√	
79	Location 79	√		
80	Location 80	√		
81	Location 81	√		
82	Location 82	√		
83	Location 83	√		
84	Location 84			√
85	Location 85	√		√
86	Location 86			√
87	Location 87	√	√	
88	Location 88	√		
89	Location 89		√	√
90	Location 90	√		
91	Location 91	√		
92	Location 92			√
93	Location 93			√
94	Location 95	√		
95	Location 96			√
96	Location 97		√	√
97	Location 98			√
98	Location 99	√		
99	Location 100	√		
100	Location 101			√
101	Location 102	√		
102	Location 103	√		
103	Location 104			√
104	Location 105	√		
105	Location 106	√		
106	Location 107	√		
107	Location 108	√		
108	Location 109		√	√
109	Location 110	√		
110	Location 111	√		
111	Location 112			√
112	Location 113	√		
113	Location 114			√
114	Location 115	√		
115	Location 116	√		
116	Location 117	√	√	
117	Location 118			√
118	Location 119	√		
119	Location 120	√		

Sl.No	Locations	Side Scan Target	Sub Bottom Target	Magnetic Anomaly
120	Location 121	√		
121	Location 122	√		
122	Location 123	√		
123	Location 124	√		
124	Location 125	√		
125	Location 126	√		
126	Location 127	√		
127	Location 128	√		
128	Location 129	√		
129	Location 130	√		
