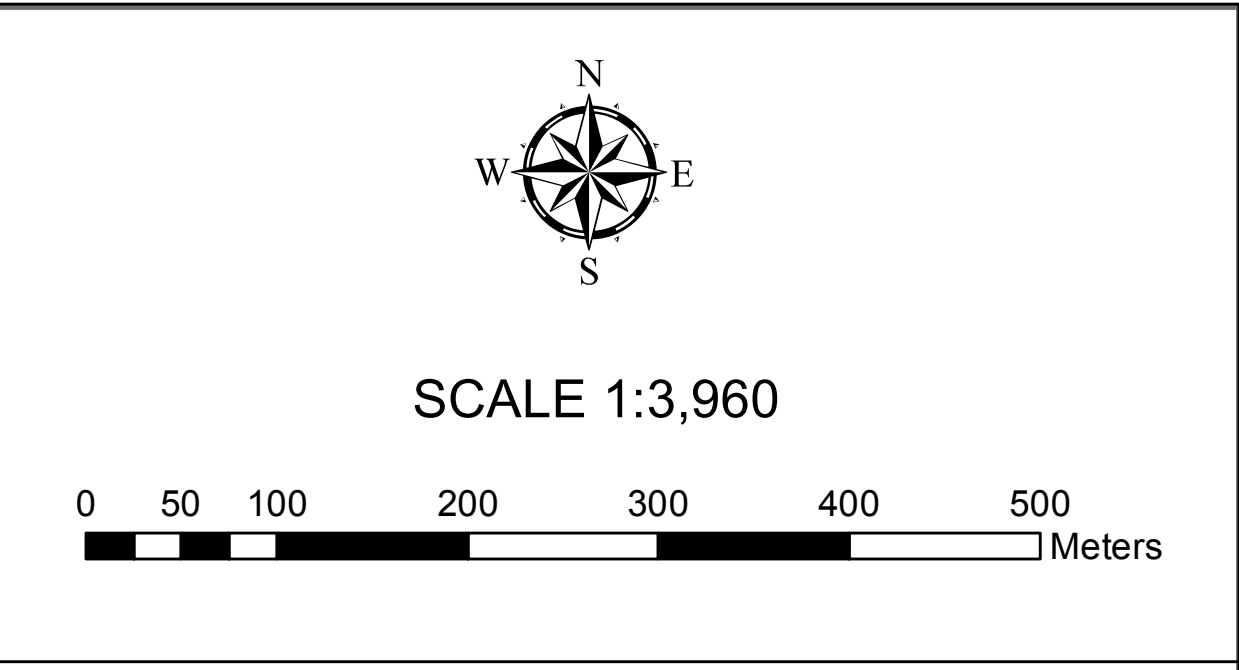
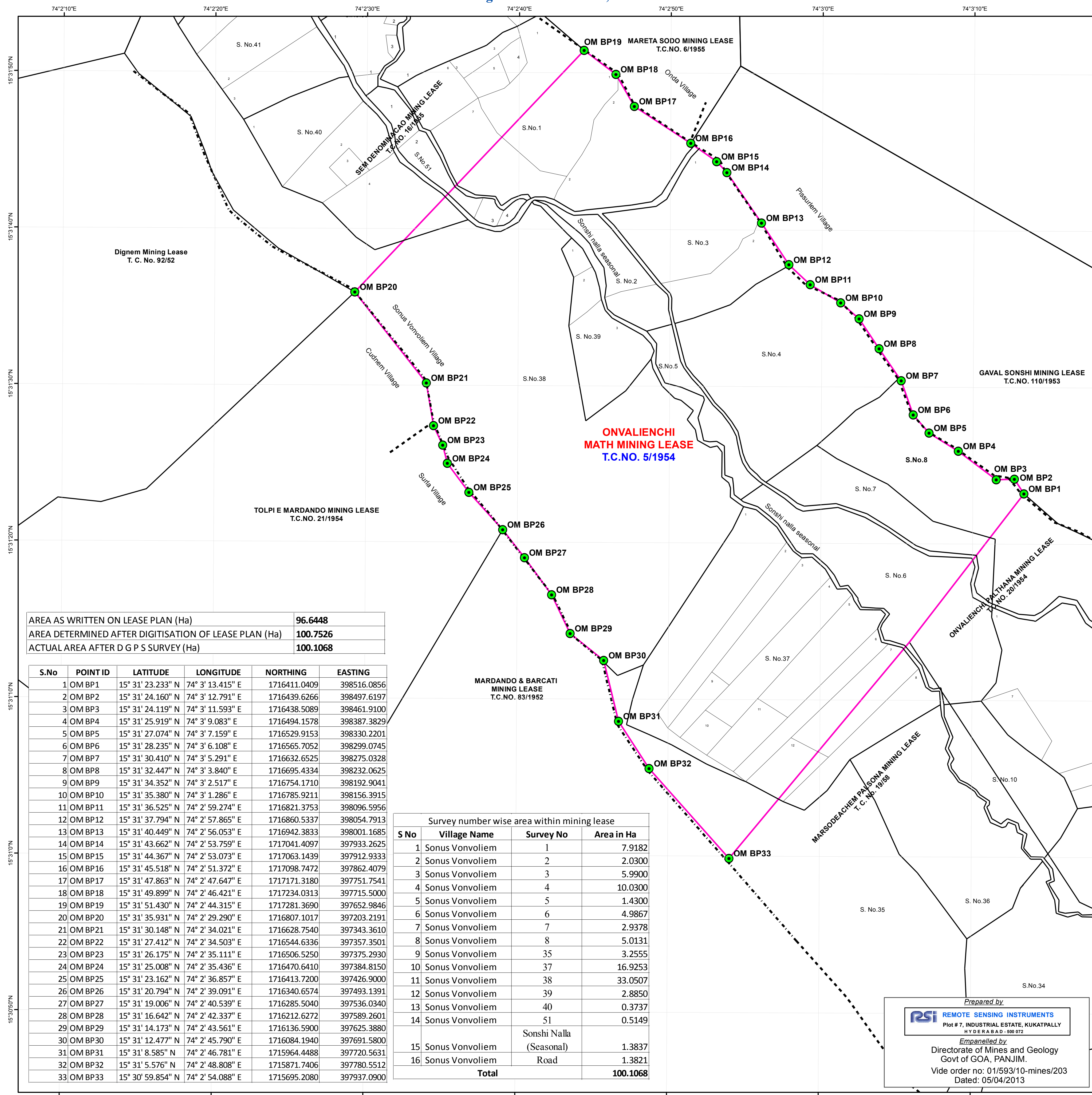
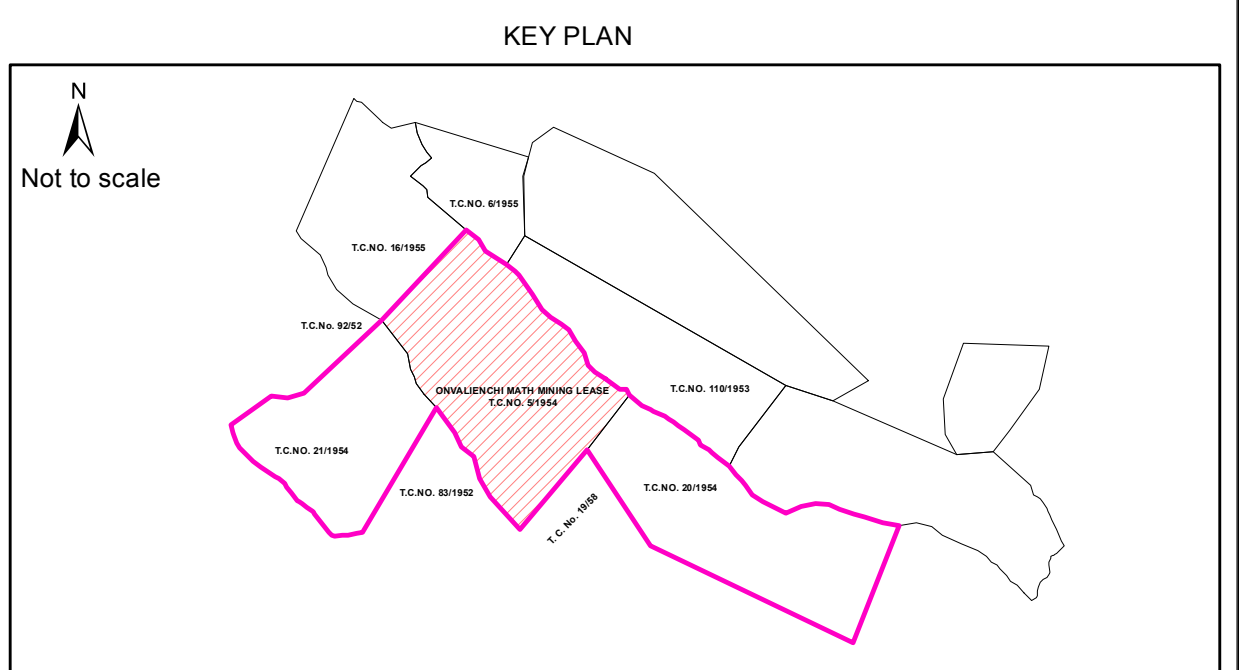


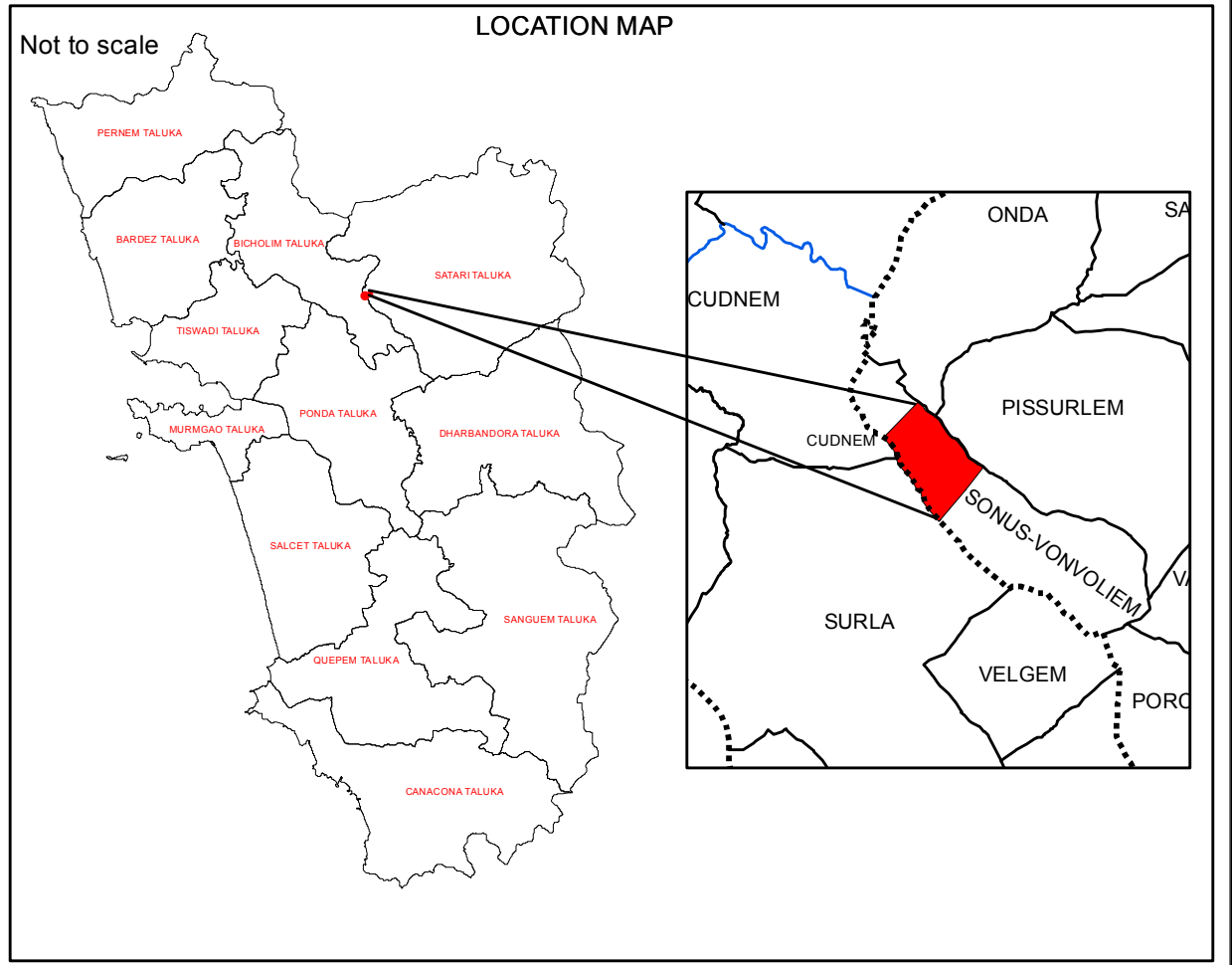
Geo Referenced Cadastral Map of Onvalienchi Math Mining Lease, bearing T.C. No. 5 of 1954, situated in Sonus Vonvoliem Village of Sattari Taluka, North Goa District, Goa State



- Legend**
- DGPS POINT OF LEASE BOUNDARY
 - ▭ LEASE BOUNDARY AS PER DGPS SURVEY
 - ▭ ADJACENT LEASE BOUNDARY
 - SURVEY No BOUNDARY
 - SUB-DIVISION OF THE SURVEY No
 - - - TALUKABOUNDARY
 - - - VILLAGE BOUNDARY



DATUM : WGS 84
PROJECTION : UTM_Zone_43N



AREA AS WRITTEN ON LEASE PLAN (Ha)	96.6448
AREA DETERMINED AFTER DIGITISATION OF LEASE PLAN (Ha)	100.7526
ACTUAL AREA AFTER D G P S SURVEY (Ha)	100.1068

S.No	POINT ID	LATITUDE	LONGITUDE	NORTHING	EASTING
1	OM BP1	15° 31' 23.233" N	74° 3' 13.415" E	1716411.0409	398516.0856
2	OM BP2	15° 31' 24.160" N	74° 3' 12.791" E	1716439.6266	398497.6197
3	OM BP3	15° 31' 24.119" N	74° 3' 11.593" E	1716438.5089	398461.9100
4	OM BP4	15° 31' 25.919" N	74° 3' 9.083" E	1716494.1578	398387.3829
5	OM BP5	15° 31' 27.074" N	74° 3' 7.159" E	1716529.9153	398330.2201
6	OM BP6	15° 31' 28.235" N	74° 3' 6.108" E	1716565.7052	398299.0745
7	OM BP7	15° 31' 30.410" N	74° 3' 5.291" E	1716632.6525	398275.0328
8	OM BP8	15° 31' 32.447" N	74° 3' 3.840" E	1716695.4334	398232.0625
9	OM BP9	15° 31' 34.352" N	74° 3' 2.517" E	1716754.1710	398192.9041
10	OM BP10	15° 31' 35.380" N	74° 3' 1.286" E	1716785.9211	398156.3915
11	OM BP11	15° 31' 36.525" N	74° 2' 59.274" E	1716821.3753	398096.5956
12	OM BP12	15° 31' 37.794" N	74° 2' 57.865" E	1716860.5337	398054.7913
13	OM BP13	15° 31' 40.449" N	74° 2' 56.053" E	1716942.3833	398001.1685
14	OM BP14	15° 31' 43.662" N	74° 2' 53.759" E	1717041.4097	397933.2625
15	OM BP15	15° 31' 44.367" N	74° 2' 53.073" E	1717063.1439	397912.9333
16	OM BP16	15° 31' 45.518" N	74° 2' 51.372" E	1717098.7472	397862.4079
17	OM BP17	15° 31' 47.863" N	74° 2' 47.647" E	1717171.3180	397751.7541
18	OM BP18	15° 31' 49.899" N	74° 2' 46.421" E	1717234.0313	397715.5000
19	OM BP19	15° 31' 51.430" N	74° 2' 44.315" E	1717281.3690	397652.9846
20	OM BP20	15° 31' 35.931" N	74° 2' 29.290" E	1716807.1017	397203.2191
21	OM BP21	15° 31' 30.148" N	74° 2' 34.021" E	1716628.7540	397343.3610
22	OM BP22	15° 31' 27.412" N	74° 2' 34.503" E	1716544.6336	397357.3501
23	OM BP23	15° 31' 26.175" N	74° 2' 35.111" E	1716506.5250	397375.2930
24	OM BP24	15° 31' 25.008" N	74° 2' 35.436" E	1716470.6410	397384.8150
25	OM BP25	15° 31' 23.162" N	74° 2' 36.857" E	1716413.7200	397426.9000
26	OM BP26	15° 31' 20.794" N	74° 2' 39.091" E	1716340.6574	397493.1391
27	OM BP27	15° 31' 19.006" N	74° 2' 40.539" E	1716285.5040	397536.0340
28	OM BP28	15° 31' 16.642" N	74° 2' 42.337" E	1716212.6272	397589.2601
29	OM BP29	15° 31' 14.173" N	74° 2' 43.561" E	1716136.5900	397625.3880
30	OM BP30	15° 31' 12.477" N	74° 2' 45.790" E	1716084.1940	397691.5800
31	OM BP31	15° 31' 8.585" N	74° 2' 46.781" E	1715964.4488	397720.5631
32	OM BP32	15° 31' 5.576" N	74° 2' 48.808" E	1715871.7406	397780.5512
33	OM BP33	15° 30' 59.854" N	74° 2' 54.088" E	1715695.2080	397937.0900

Survey number wise area within mining lease

S No	Village Name	Survey No	Area in Ha
1	Sonus Vonvoliem	1	7.9182
2	Sonus Vonvoliem	2	2.0300
3	Sonus Vonvoliem	3	5.9900
4	Sonus Vonvoliem	4	10.0300
5	Sonus Vonvoliem	5	1.4300
6	Sonus Vonvoliem	6	4.9867
7	Sonus Vonvoliem	7	2.9378
8	Sonus Vonvoliem	8	5.0131
9	Sonus Vonvoliem	35	3.2555
10	Sonus Vonvoliem	37	16.9253
11	Sonus Vonvoliem	38	33.0507
12	Sonus Vonvoliem	39	2.8850
13	Sonus Vonvoliem	40	0.3737
14	Sonus Vonvoliem	51	0.5149
15	Sonus Vonvoliem	Sonshi Nalla (Seasonal)	1.3837
16	Sonus Vonvoliem	Road	1.3821
Total			100.1068

Prepared by
RSI REMOTE SENSING INSTRUMENTS
 Plot # 7, INDUSTRIAL ESTATE, KUKATPALLY
 HYDERABAD - 500 072
 Empanelled by
 Directorate of Mines and Geology
 Govt of GOA, PANJIM.
 Vide order no: 01/593/10-mines/203
 Dated: 05/04/2013

CERTIFICATE

This is to certify that the lease boundary pillars of T.C. No.5 of 1954 have been surveyed using DGPS (Differential Global Positioning System) and is based upon the Total Station survey conducted earlier.

Mr. B.K.Prusty
(Mines Manager)

Note: Surta-Sonshi Iron Ore Mine is consisting of 3 Contiguous Leases bearing T. C. Nos. 5/1954, 20/1954 & 21/1954

CERTIFICATE

This is to certify that the lease boundary pillars of T.C. No. 5 of 1954, shown by Mr. B.K.Prusty (Mines Manager) has been surveyed by our team led by Shri. Sivaiah using DGPS (Differential Global Positioning System) instruments. The lease map and pillar locations have been verified, survey conducted and plans prepared as per requirement of IBM Circular No. 2/2010 dated 6-4-2010

For Remote Sensing Instruments

Shri. B.V Ramana Kumar
(General Manager)

Directorate of Mines and Geology - Panaji -Goa	
Checked by	Certified by
_____ Surveying officer	_____ Director of Mines and Geology

Date of DGPS survey : 16, 17, 18 & 19th May, 2013