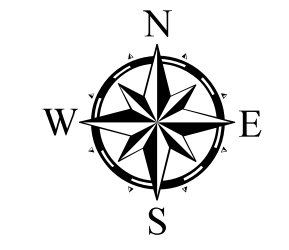
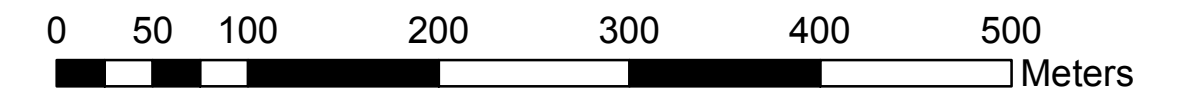


Geo Referenced Cadastral Map of Totichomor Dongor Mining Lease, bearing T.C. No. 14 of 1941, situated in Bordem, Lamgao, Mulgao & Mayem Villages of Bicholim Taluka, North Goa District, Goa State.



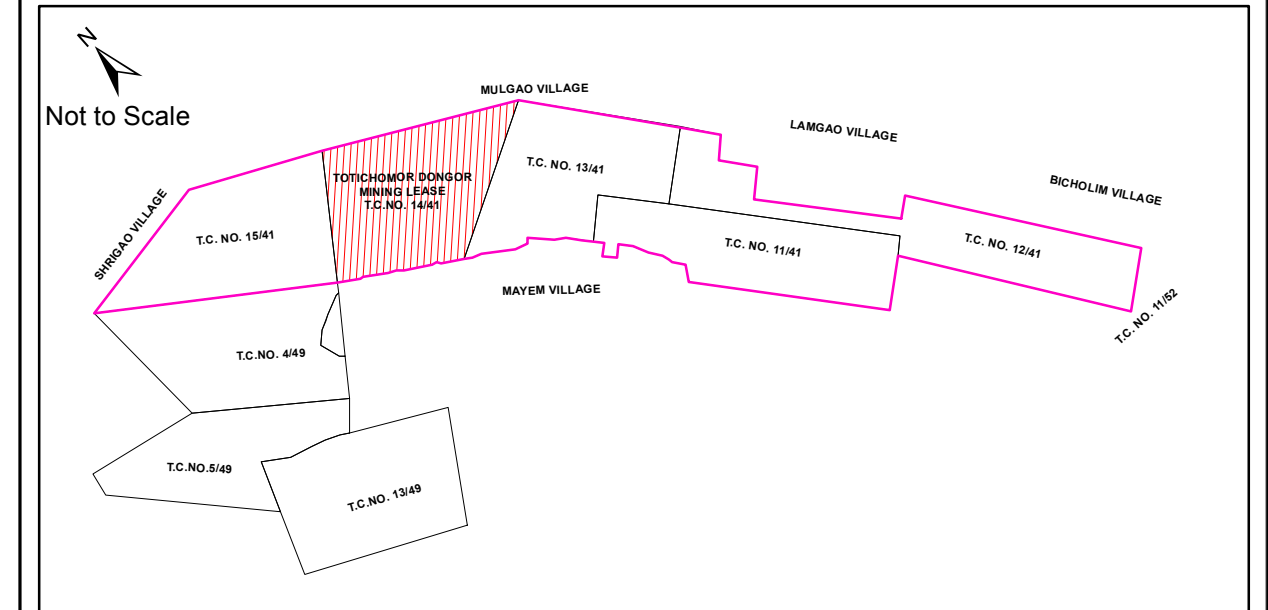
SCALE 1:3,960



Legend

- DGPS POINT OF LEASE BOUNDARY
- LEASE BOUNDARY AS PER DGPS SURVEY
- ADJACENT LEASE BOUNDARY
- SURVEY No BOUNDARY
- SUB-DIVISION OF THE SURVEY No
- TALUKA BOUNDARY
- VILLAGE BOUNDARY

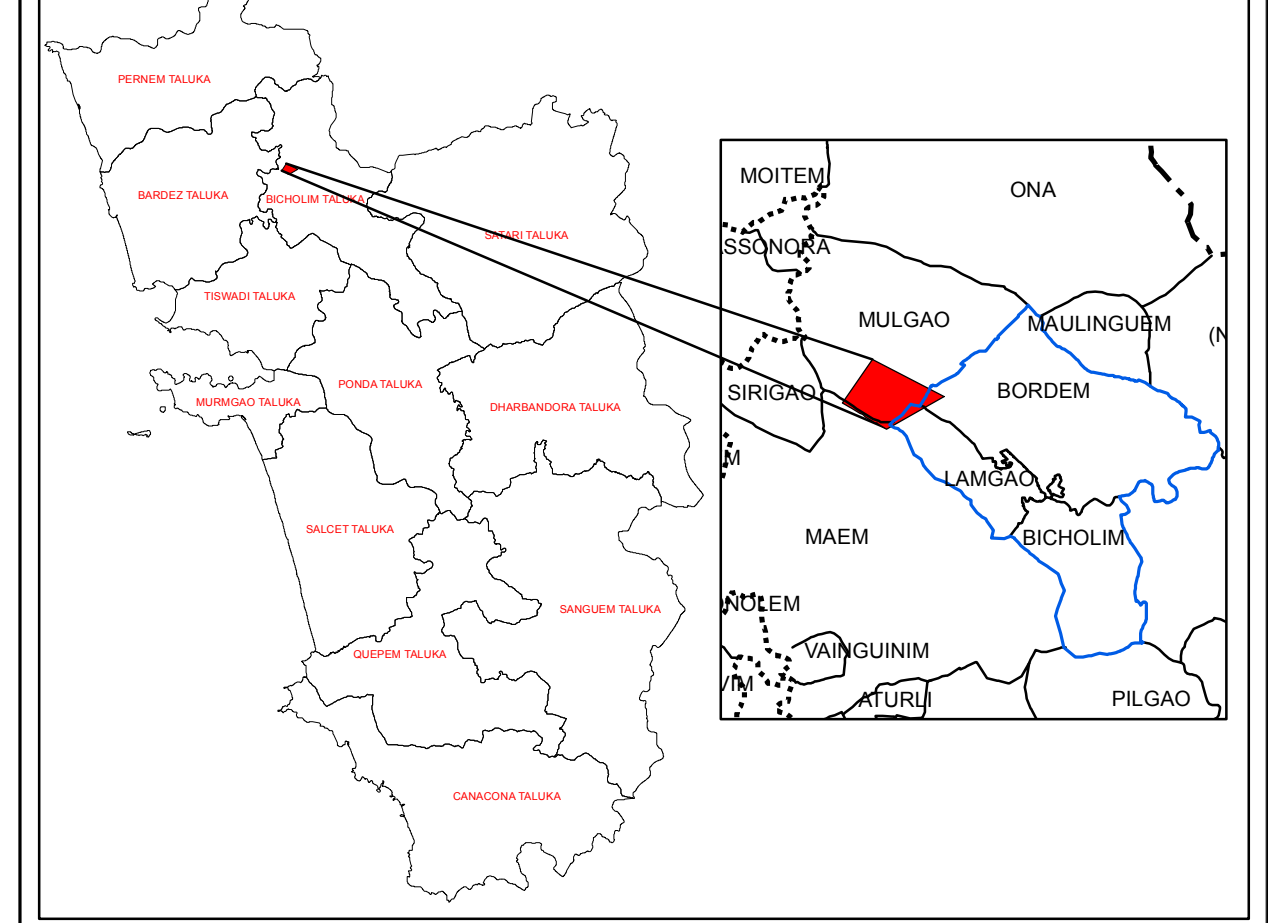
KEY PLAN



DATUM : WGS 84

PROJECTION : UTM_Zone_43N

LOCATION MAP



CERTIFICATE

This is to certify that the lease boundary pillars of T.C. No. 14 of 1941 have been surveyed using DGPS (Differential Global Positioning System) and is based upon the Total Station survey conducted earlier.

Mr. Shrishaila Gowda
(Mines Manager)

Note: Bicholim Mine is consisting of 5 Contiguous Leases bearing T. C. Nos. 11/41, 12/41, 13/41, 14/41 & 15/41.

CERTIFICATE

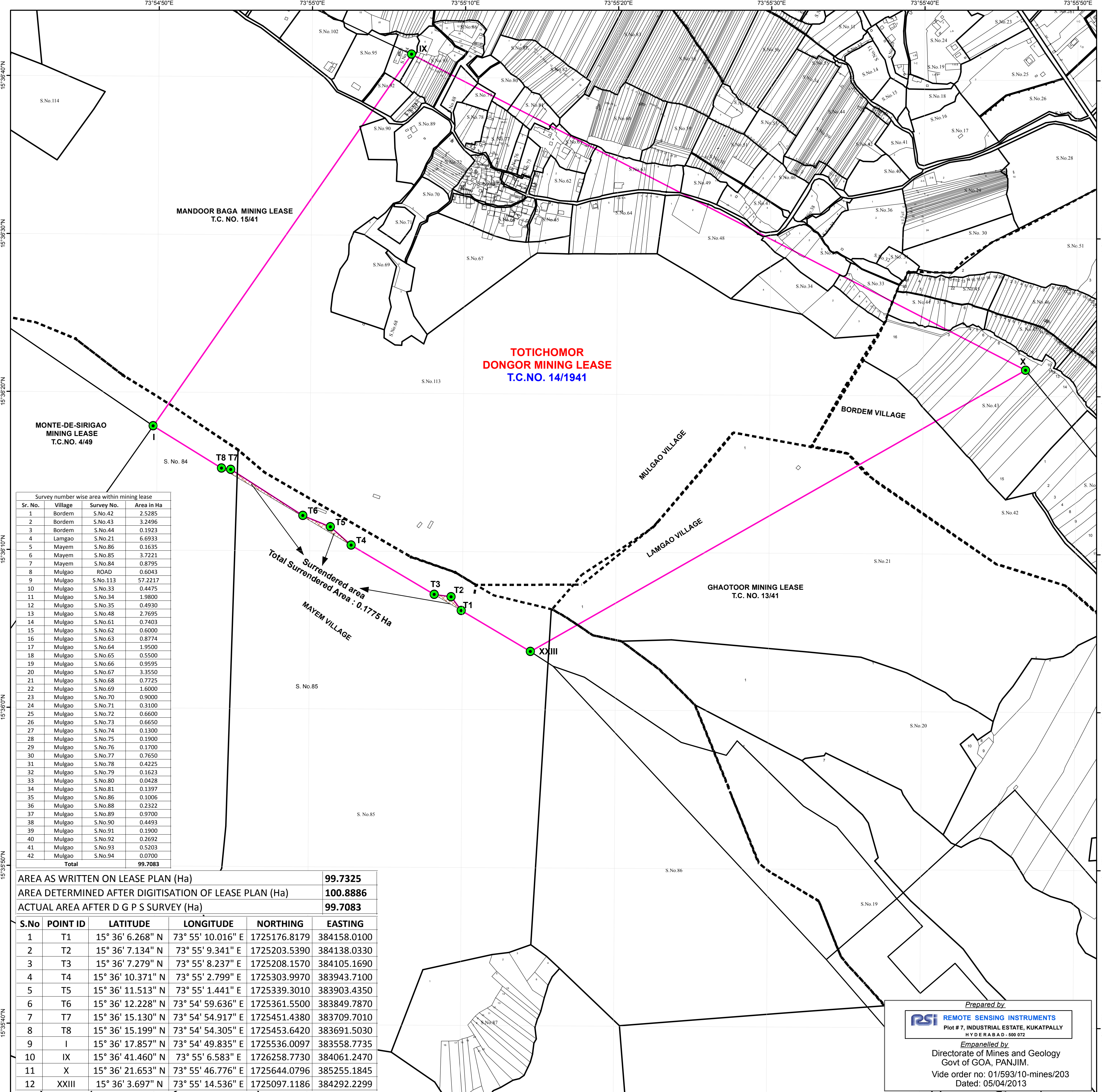
This is to certify that the lease boundary pillars of T.C. No. 14 of 1941, shown by Mr. Shrishaila Gowda (Mines Manager) has been surveyed by our team led by Shri. Ch. Sivaiah using DGPS (Differential Global Positioning System) instruments. The lease map and pillar locations have been verified, survey 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



Sr. No.	Village	Survey No.	Area in Ha
1	Bordem	S.No.42	2.5285
2	Bordem	S.No.43	3.2496
3	Bordem	S.No.44	0.1923
4	Lamgao	S.No.21	6.6933
5	Mayem	S.No.86	0.1635
6	Mayem	S.No.85	3.7221
7	Mayem	S.No.84	0.8795
8	Mulgao	ROAD	0.6043
9	Mulgao	S.No.113	57.2217
10	Mulgao	S.No.33	0.4475
11	Mulgao	S.No.34	1.9800
12	Mulgao	S.No.35	0.4930
13	Mulgao	S.No.48	2.7695
14	Mulgao	S.No.61	0.7403
15	Mulgao	S.No.62	0.6000
16	Mulgao	S.No.63	0.8774
17	Mulgao	S.No.64	1.9500
18	Mulgao	S.No.65	0.5500
19	Mulgao	S.No.66	0.9595
20	Mulgao	S.No.67	3.3550
21	Mulgao	S.No.68	0.7725
22	Mulgao	S.No.69	1.6000
23	Mulgao	S.No.70	0.9000
24	Mulgao	S.No.71	0.3100
25	Mulgao	S.No.72	0.6600
26	Mulgao	S.No.73	0.6650
27	Mulgao	S.No.74	0.1300
28	Mulgao	S.No.75	0.1900
29	Mulgao	S.No.76	0.1700
30	Mulgao	S.No.77	0.7650
31	Mulgao	S.No.78	0.4225
32	Mulgao	S.No.79	0.1623
33	Mulgao	S.No.80	0.0428
34	Mulgao	S.No.81	0.1397
35	Mulgao	S.No.86	0.1006
36	Mulgao	S.No.88	0.2322
37	Mulgao	S.No.89	0.9700
38	Mulgao	S.No.90	0.4493
39	Mulgao	S.No.91	0.1900
40	Mulgao	S.No.92	0.2692
41	Mulgao	S.No.93	0.5203
42	Mulgao	S.No.94	0.0700
Total			99.7083

AREA AS WRITTEN ON LEASE PLAN (Ha)	99.7325
AREA DETERMINED AFTER DIGITISATION OF LEASE PLAN (Ha)	100.8886
ACTUAL AREA AFTER D G P S SURVEY (Ha)	99.7083

S.No	POINT ID	LATITUDE	LONGITUDE	NORTHING	EASTING
1	T1	15° 36' 6.268" N	73° 55' 10.016" E	1725176.8179	384158.0100
2	T2	15° 36' 7.134" N	73° 55' 9.341" E	1725203.5390	384138.0330
3	T3	15° 36' 7.279" N	73° 55' 8.237" E	1725208.1570	384105.1690
4	T4	15° 36' 10.371" N	73° 55' 2.799" E	1725303.9970	383943.7100
5	T5	15° 36' 11.513" N	73° 55' 1.441" E	1725339.3010	383903.4350
6	T6	15° 36' 12.228" N	73° 54' 59.636" E	1725361.5500	383849.7870
7	T7	15° 36' 15.130" N	73° 54' 54.917" E	1725451.4380	383709.7010
8	T8	15° 36' 15.199" N	73° 54' 54.305" E	1725453.6420	383691.5030
9	I	15° 36' 17.857" N	73° 54' 49.835" E	1725536.0097	383558.7735
10	IX	15° 36' 41.460" N	73° 55' 6.583" E	1726258.7730	384061.2470
11	X	15° 36' 21.653" N	73° 55' 46.776" E	1725644.0796	385255.1845
12	XXIII	15° 36' 3.697" N	73° 55' 14.536" E	1725097.1186	384292.2299

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

Date of DGPS Survey : 17th Jun 2013