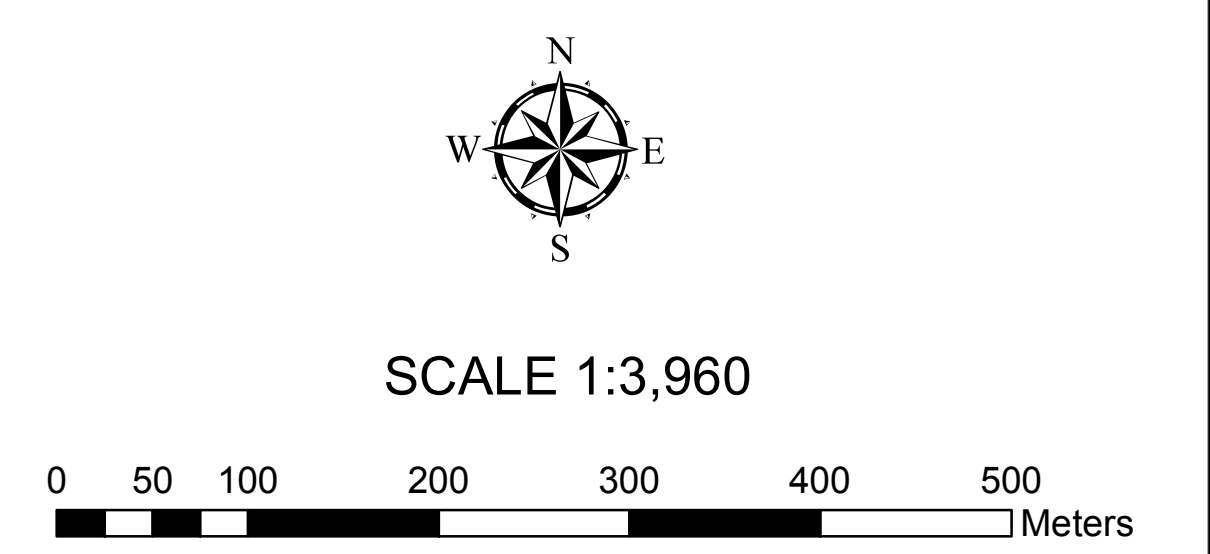
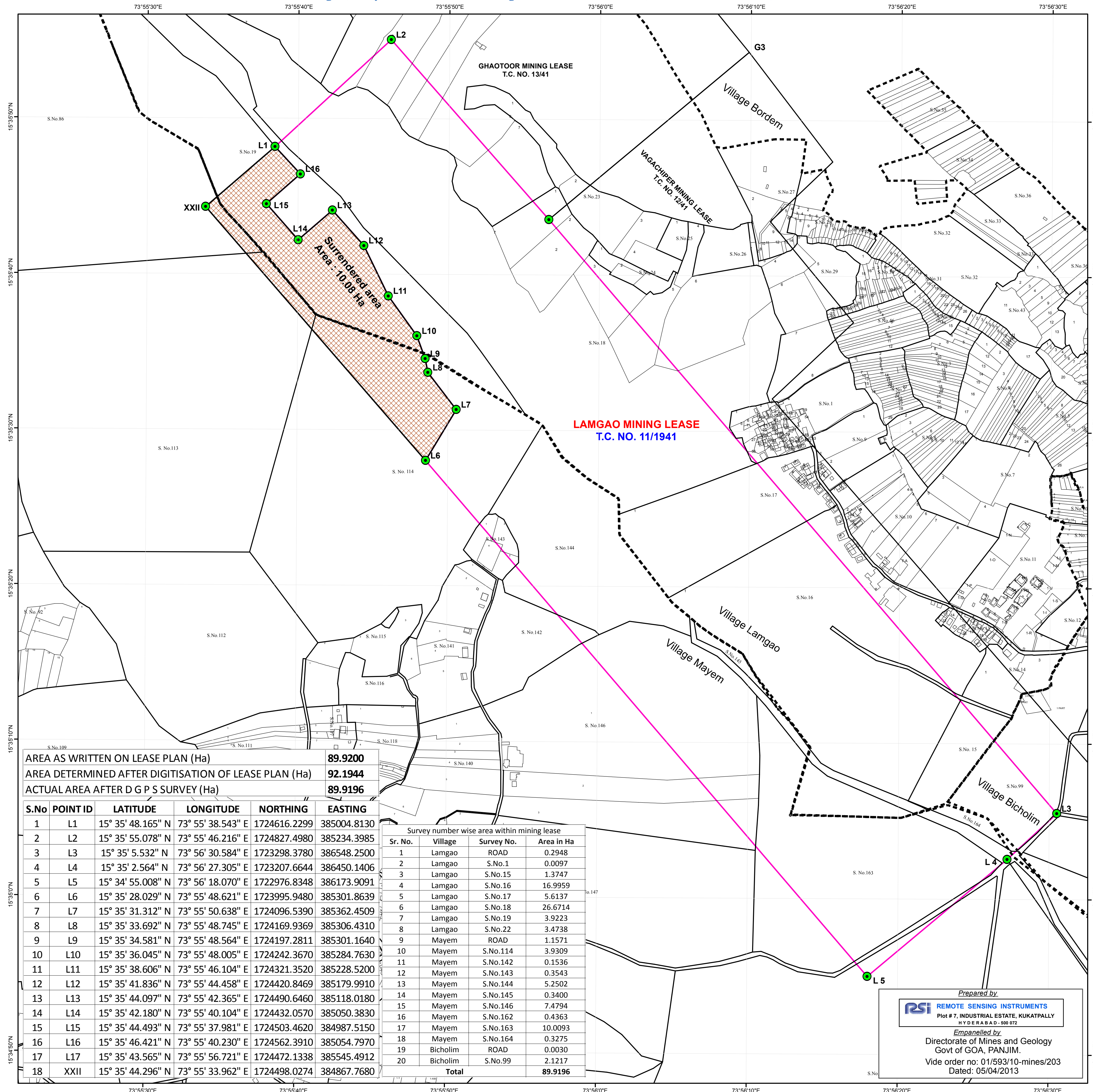
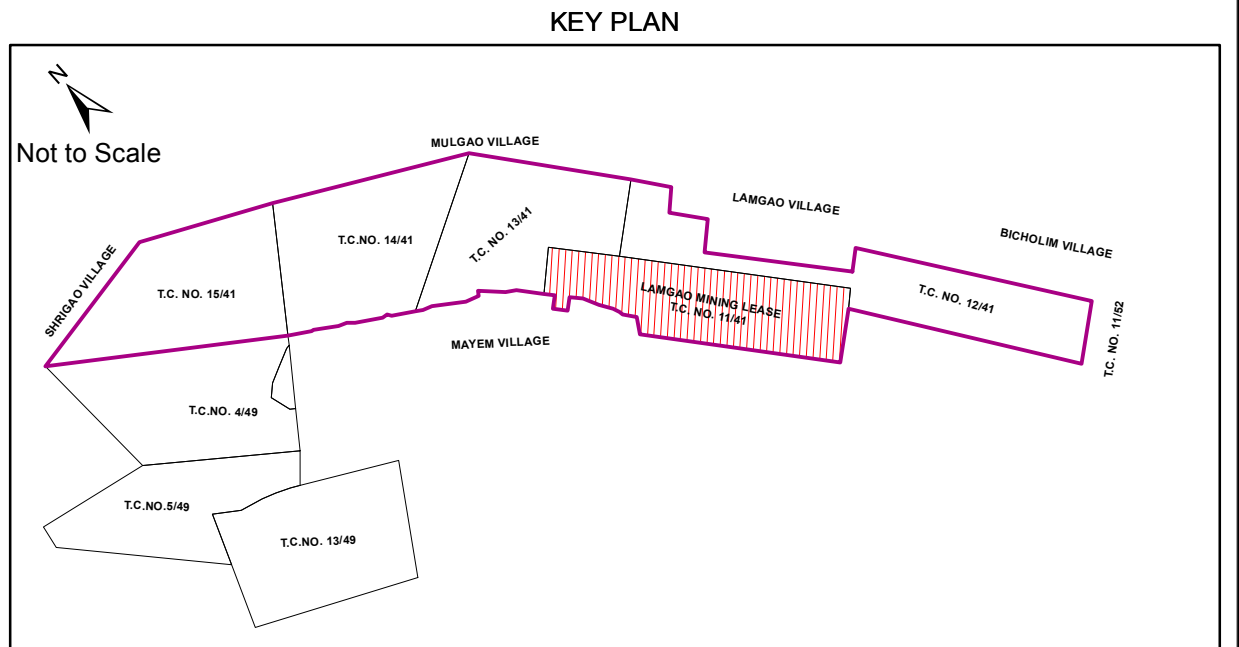


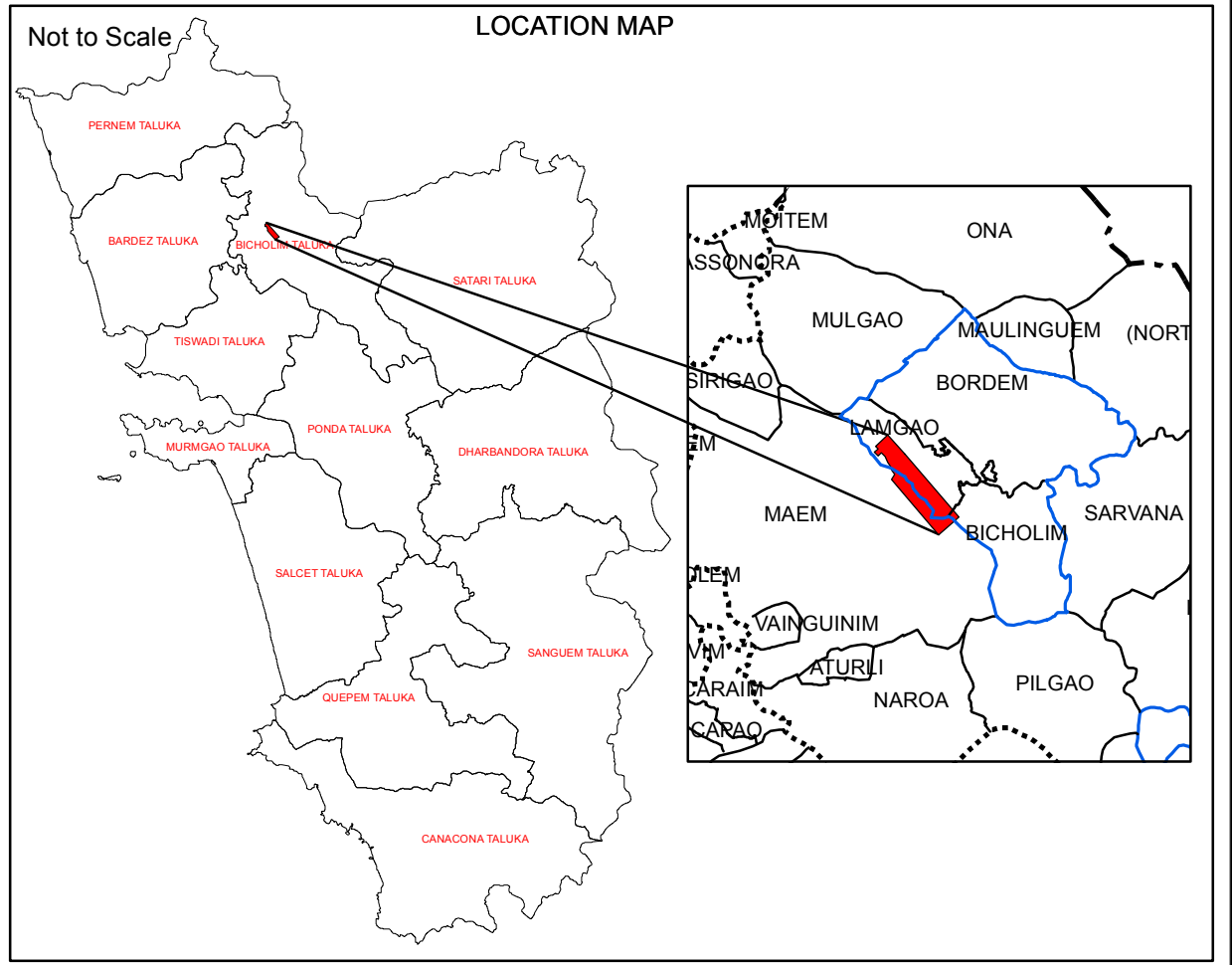
**Geo Referenced Cadastral Map of Lamgao Mining Lease, bearing T.C. No. 11 of 1941, situated in Lamgao, Mayem & Bicholim Villages of Bicholim Taluka, North Goa District, Goa State.**



- 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)	<b>89.9200</b>
AREA DETERMINED AFTER DIGITISATION OF LEASE PLAN (Ha)	<b>92.1944</b>
ACTUAL AREA AFTER D G P S SURVEY (Ha)	<b>89.9196</b>

S.No	POINT ID	LATITUDE	LONGITUDE	NORTHING	EASTING
1	L1	15° 35' 48.165" N	73° 55' 38.543" E	1724616.2299	385004.8130
2	L2	15° 35' 55.078" N	73° 55' 46.216" E	1724827.4980	385234.3985
3	L3	15° 35' 5.532" N	73° 56' 30.584" E	1723298.3780	386548.2500
4	L4	15° 35' 2.564" N	73° 56' 27.305" E	1723207.6644	386450.1406
5	L5	15° 34' 55.008" N	73° 56' 18.070" E	1722976.8348	386173.9091
6	L6	15° 35' 28.029" N	73° 55' 48.621" E	1723995.9480	385301.8639
7	L7	15° 35' 31.312" N	73° 55' 50.638" E	1724096.5390	385362.4509
8	L8	15° 35' 33.692" N	73° 55' 48.745" E	1724169.9369	385306.4310
9	L9	15° 35' 34.581" N	73° 55' 48.564" E	1724197.2811	385301.1640
10	L10	15° 35' 36.045" N	73° 55' 48.005" E	1724242.3670	385284.7630
11	L11	15° 35' 38.606" N	73° 55' 46.104" E	1724321.3520	385228.5200
12	L12	15° 35' 41.836" N	73° 55' 44.458" E	1724420.8469	385179.9910
13	L13	15° 35' 44.097" N	73° 55' 42.365" E	1724490.6460	385118.0180
14	L14	15° 35' 42.180" N	73° 55' 40.104" E	1724432.0570	385050.3830
15	L15	15° 35' 44.493" N	73° 55' 37.981" E	1724503.4620	384987.5150
16	L16	15° 35' 46.421" N	73° 55' 40.230" E	1724562.3910	385054.7970
17	L17	15° 35' 43.565" N	73° 55' 56.721" E	1724472.1338	385545.4912
18	XXII	15° 35' 44.296" N	73° 55' 33.962" E	1724498.0274	384867.7680

Survey number wise area within mining lease

Sr. No.	Village	Survey No.	Area in Ha
1	Lamgao	ROAD	0.2948
2	Lamgao	S.No.1	0.0097
3	Lamgao	S.No.15	1.3747
4	Lamgao	S.No.16	16.9959
5	Lamgao	S.No.17	5.6137
6	Lamgao	S.No.18	26.6714
7	Lamgao	S.No.19	3.9223
8	Lamgao	S.No.22	3.4738
9	Mayem	ROAD	1.1571
10	Mayem	S.No.114	3.9309
11	Mayem	S.No.142	0.1536
12	Mayem	S.No.143	0.3543
13	Mayem	S.No.144	5.2502
14	Mayem	S.No.145	0.3400
15	Mayem	S.No.146	7.4794
16	Mayem	S.No.162	0.4363
17	Mayem	S.No.163	10.0093
18	Mayem	S.No.164	0.3275
19	Bicholim	ROAD	0.0030
20	Bicholim	S.No.99	2.1217
<b>Total</b>			<b>89.9196</b>

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.11 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. 11 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