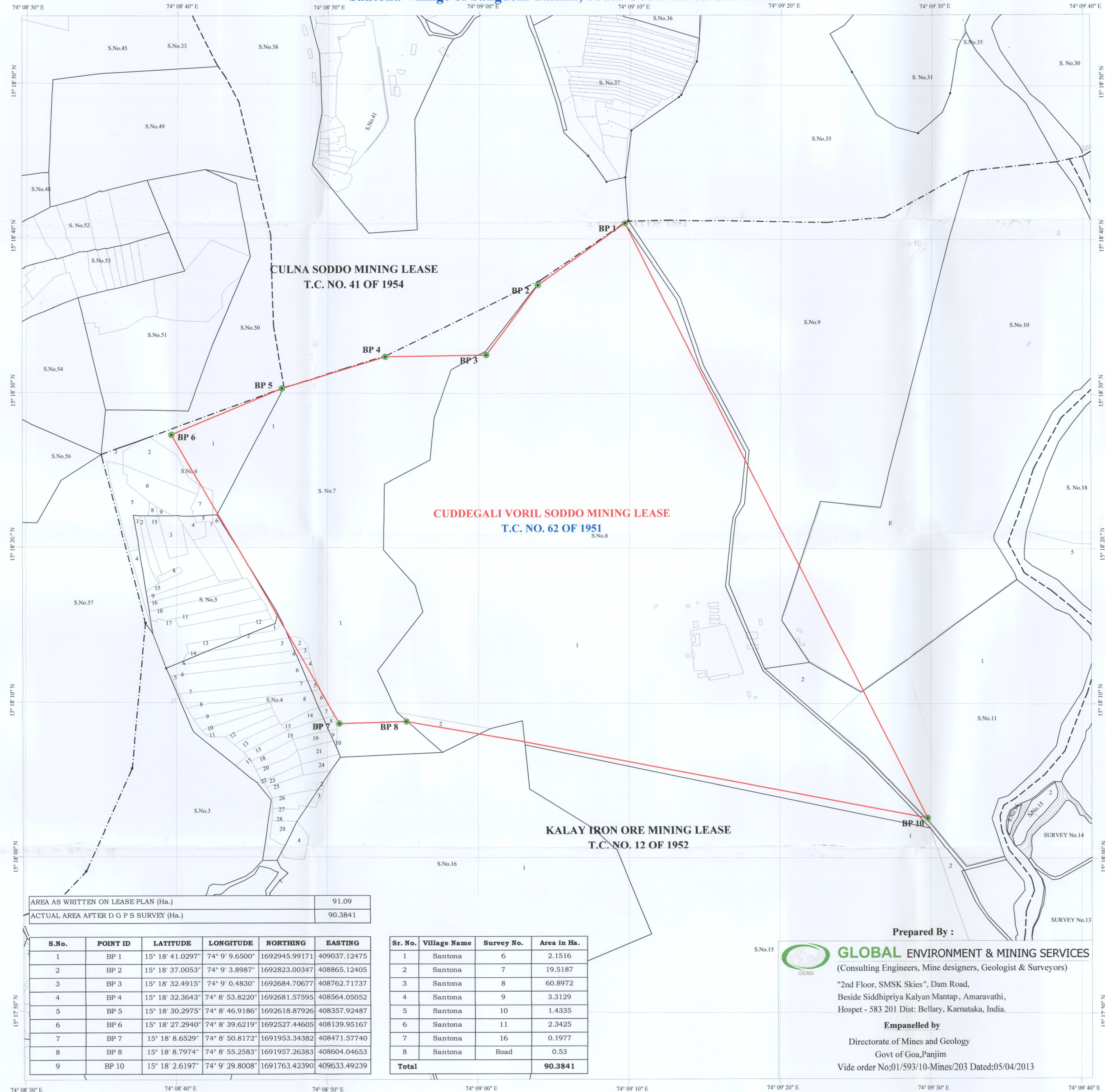


Geo Referenced Cadastral Map of Cuddegali Voril Soddo Mining Lease, bearing T. C. No. 62 of 1951, Lessee Mineira Nacional Limitada , situated in Santana Village of Sanguem Taluka, South Goa District. Goa State



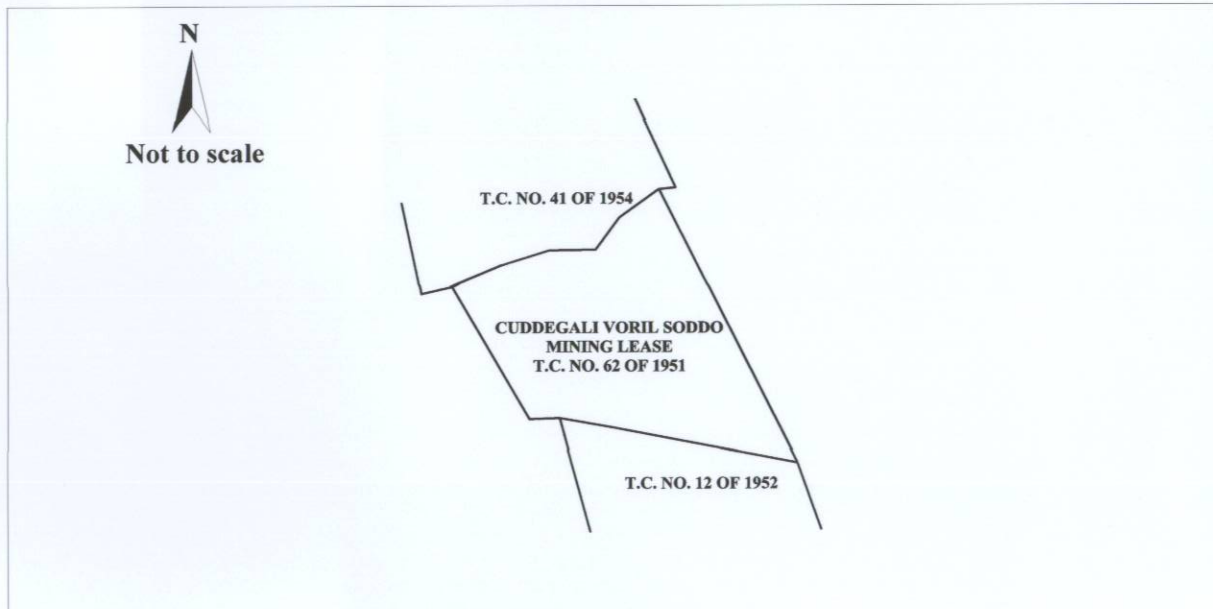
SCALE 1 : 3960



LEGEND

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

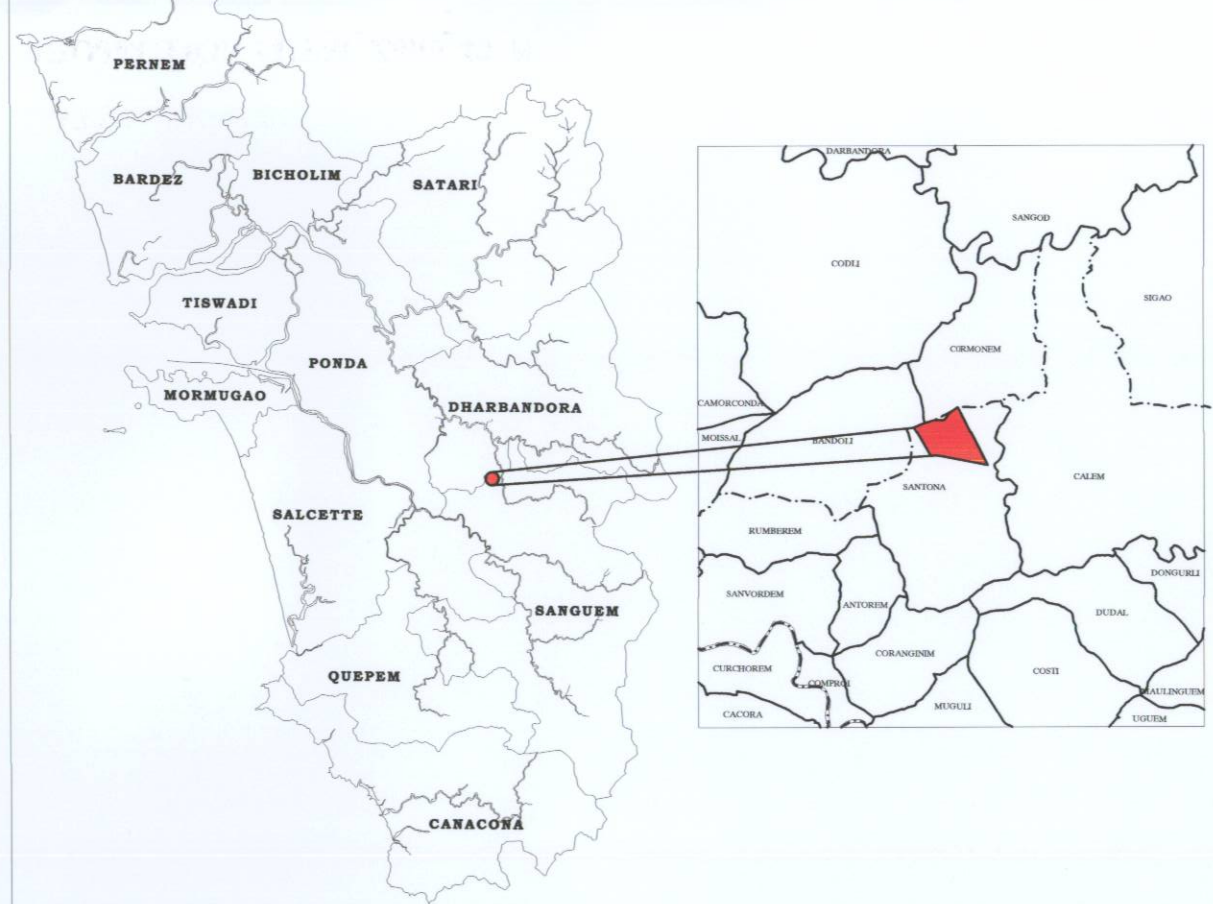
KEY PLAN



DATUM: WGS 84

PROJECTION : UTM_Zone_43 N

LOCATION MAP



CERTIFICATE

This is to certify that the lease boundary pillars of T. C. No. 62 of 1951 of Mineira Nacional Limitada have been surveyed using DGPS (Differential Global Positioning System) and is based upon the Total Station survey conducted earlier.

Shri. Harshad Pagi
(Mines Manager)

CERTIFICATE BY ACCREDITED AGENCY

This is to certify that the lease boundary pillars of T.C.No. 62 of 1951. shown by Shri. Harshad Pagi, Mines Manager has been surveyed by our team led by Shri Nitin R Mantri, 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.

Nitin R Mantri
Surveyor

Dr. D.N. Gulhane
Key person

S.Kameswara Rao
Authorized Signatory

DIRECTORATE OF MINES AND GEOLOGY - PANAJI - GOA

Checked by

Certified by

Surveying Officer

Director of Mines and Geology

Prepared By :

S.No.15



GLOBAL ENVIRONMENT & MINING SERVICES

(Consulting Engineers, Mine designers, Geologist & Surveyors)

"2nd Floor, SMSK Skies", Dam Road,
Beside Siddhipriya Kalyan Mantap, Amaravathi,
Hospet - 583 201 Dist: Bellary, Karnataka, India.

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: 26-05-2013

AREA AS WRITTEN ON LEASE PLAN (Ha.)	91.09
ACTUAL AREA AFTER D G P S SURVEY (Ha.)	90.3841

S.No.	POINT ID	LATITUDE	LONGITUDE	NORTHING	EASTING
1	BP 1	15° 18' 41.0297"	74° 9' 9.6500"	1692945.99171	409037.12475
2	BP 2	15° 18' 37.0053"	74° 9' 3.8987"	1692823.00347	408865.12405
3	BP 3	15° 18' 32.4915"	74° 9' 0.4830"	1692684.70677	408762.71737
4	BP 4	15° 18' 32.3643"	74° 8' 53.8220"	1692681.57595	408564.05052
5	BP 5	15° 18' 30.2975"	74° 8' 46.9186"	1692618.87926	408357.92487
6	BP 6	15° 18' 27.2940"	74° 8' 39.6219"	1692527.44605	408139.95167
7	BP 7	15° 18' 8.6529"	74° 8' 50.8172"	1691953.34382	408471.57740
8	BP 8	15° 18' 8.7974"	74° 8' 55.2583"	1691957.26383	408604.04653
9	BP 10	15° 18' 2.6197"	74° 9' 29.8008"	1691763.42390	409633.49239

Sr. No.	Village Name	Survey No.	Area in Ha.
1	Santona	6	2.1516
2	Santona	7	19.5187
3	Santona	8	60.8972
4	Santona	9	3.3129
5	Santona	10	1.4335
6	Santona	11	2.3425
7	Santona	16	0.1977
8	Santona	Road	0.53
Total			90.3841