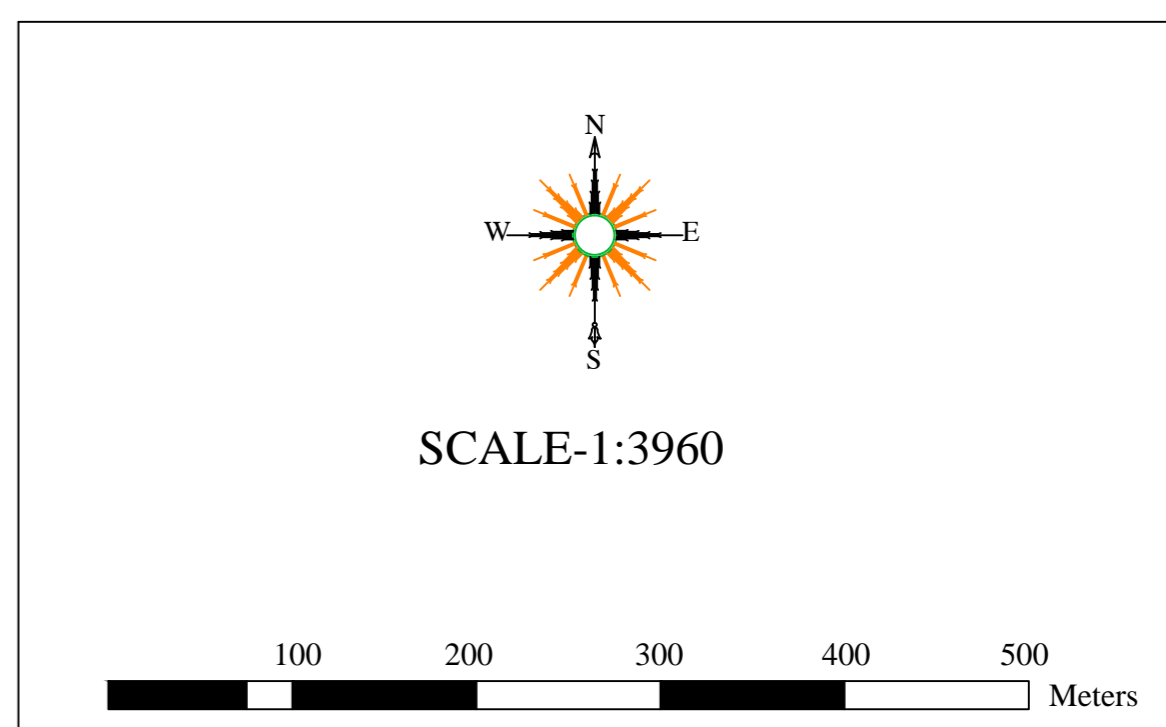
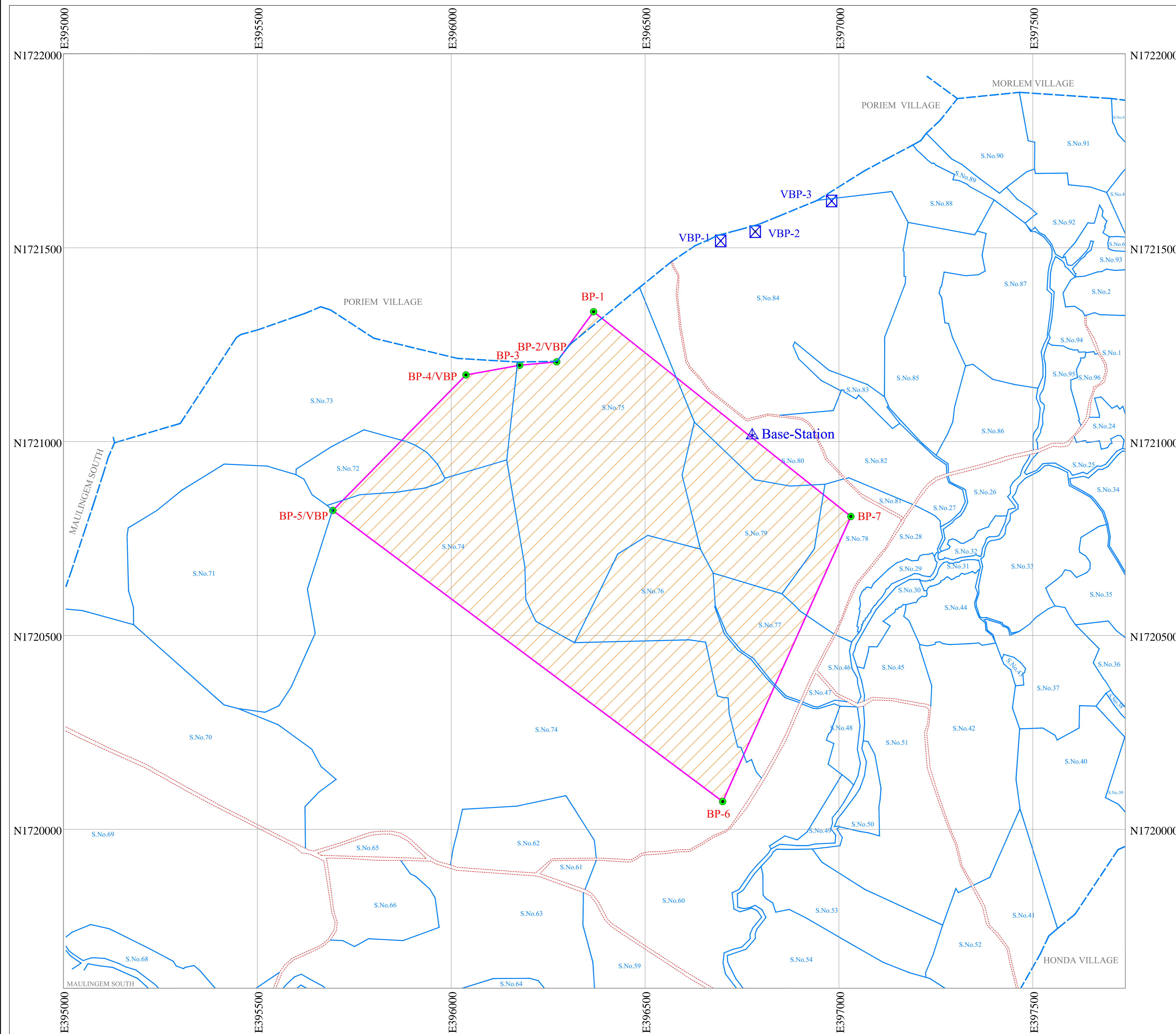
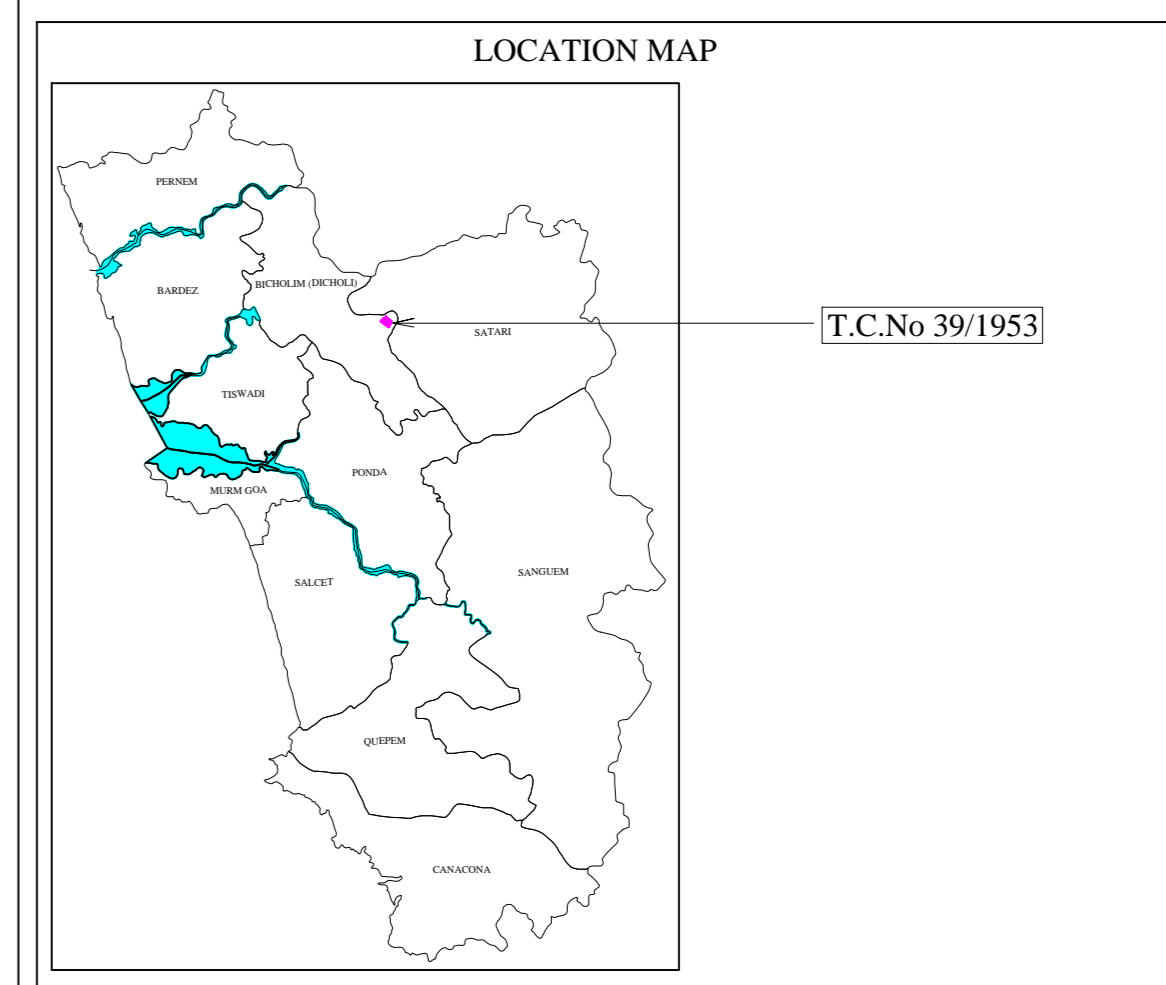


GEO REFERENCED CADASTRAL MAP OF OILEM ARVALEM IRON & MANGANESE ORE MINE, MINING LEASE BEARING T.C.No-39/15-5-1953, SITUATED IN ARVALEM VILLAGE OF BICHOLIM TALUKA,NORTH GOA DISTRICT,GOA STATE.



- INDEX**
- DGPS POINTS OF LEASE BOUNDARY
 - ⊠ DGPS POINTS OF VILLAGE BOUNDARY PILLAR
 - ▭ MINE LEASE BOUNDARY AS PER DGPS SURVEY
 - ▭ ADJACENT MINE LEASE BOUNDARY
 - SURVEY No BOUNDARY
 - SUB DIVISION OF SURVEY No
 - TALUKA BOUNDARY
 - - - VILLAGE BOUNDARY

DATUM : WGS 84
PROJECTION : UTM_ZONE_43N



CERTIFICATE

This is certify that the boundary pillars of which the DGPS survey readings are taken are the boundary pillars situated on ground for T.C.No.39/1953. The same are surveyed as required by the Indian Bureau of Mines vide their Circular No.2/2010 dated 6-4-2010

Mines Manager

CERTIFICATE

This is certify that the boundary pillars as shown by Shri _____ was surveyed by our team led by Shri Johnson C.M (Asst.Manager) using DGPS(Differential Global Positioning System)instruments. The Lease map and pillar locations have been verified survey conducted and plans prepared as required by the Indian Bureau of Mines vide their Circular No.2/2010 dated 6-4-2010

Kaliprasad S.B
Chaithanya Geo Lynx

AREA AS WRITTEN ON LEASE PLAN	85.85 Ha.
AREA DETERMINED AFTER DIGITISATION OF LEASE PLAN	86.56 Ha.
ACTUAL AREA AFTER DGPS SURVEY	85.81 Ha.

Sl No	POINT ID	LATTITUDE	LONGITUDE	NORTHING	EASTING	DATE
1	Base Station	15°33'52.83893"	74°02'14.32568"	1721016.096	396776.337	20-06-2013
2	BP-1	15°34'03.16173"	74°02'00.54167"	1721335.158	396367.189	15-06-2013
3	BP-2/VBP	15°33'58.94004"	74°01'57.37011"	1721205.858	396272.131	15-06-2013
4	BP-3	15°33'58.63497"	74°01'54.16482"	1721196.917	396176.613	15-06-2013
5	BP-4/VBP	15°33'57.80593"	74°01'49.51669"	1721172.070	396038.044	15-06-2013
6	BP-5/VBP	15°33'46.38193"	74°01'38.04387"	1720822.578	395694.706	15-06-2013
7	BP-6	15°33'22.08800"	74°02'11.90946"	1720071.484	396700.103	30-06-2013
8	BP-7	15°33'46.07095"	74°02'22.89877"	1720806.974	397030.768	30-06-2013
9	VBP-1	15°34'09.15503"	74°02'11.51810"	1721517.846	396694.971	15-06-2013
10	VBP-2	15°34'09.94548"	74°02'14.50905"	1721541.734	396784.170	15-06-2013
11	VBP-3	15°34'12.54679"	74°02'21.10863"	1721620.783	396981.107	15-06-2013

Survey No Areas in mine area

Sno	Village Name	Survey No	Area In Ha
1	ARVALEM	72	01.95
2	ARVALEM	73	05.17
3	ARVALEM	74	24.16
4	ARVALEM	75	26.80
5	ARVALEM	76	10.22
6	ARVALEM	77	03.73
7	ARVALEM	78	01.88
8	ARVALEM	79	09.24
9	ARVALEM	80	02.45

Prepared By
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0838-220551 0838-220552

Empanelled by
Directorate of Mines and Geology
Govt of GOA, PANJIM
Vide order no 01/593/10-mines/203
Dated:05/04/2013

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