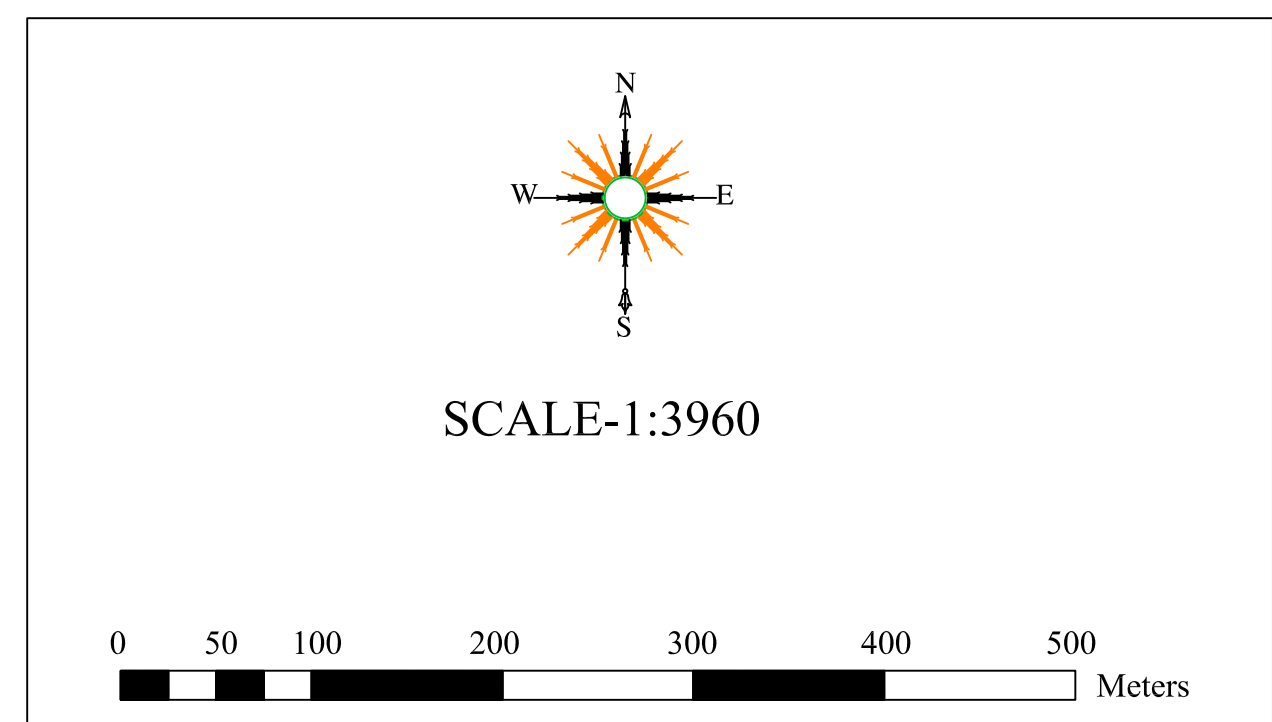
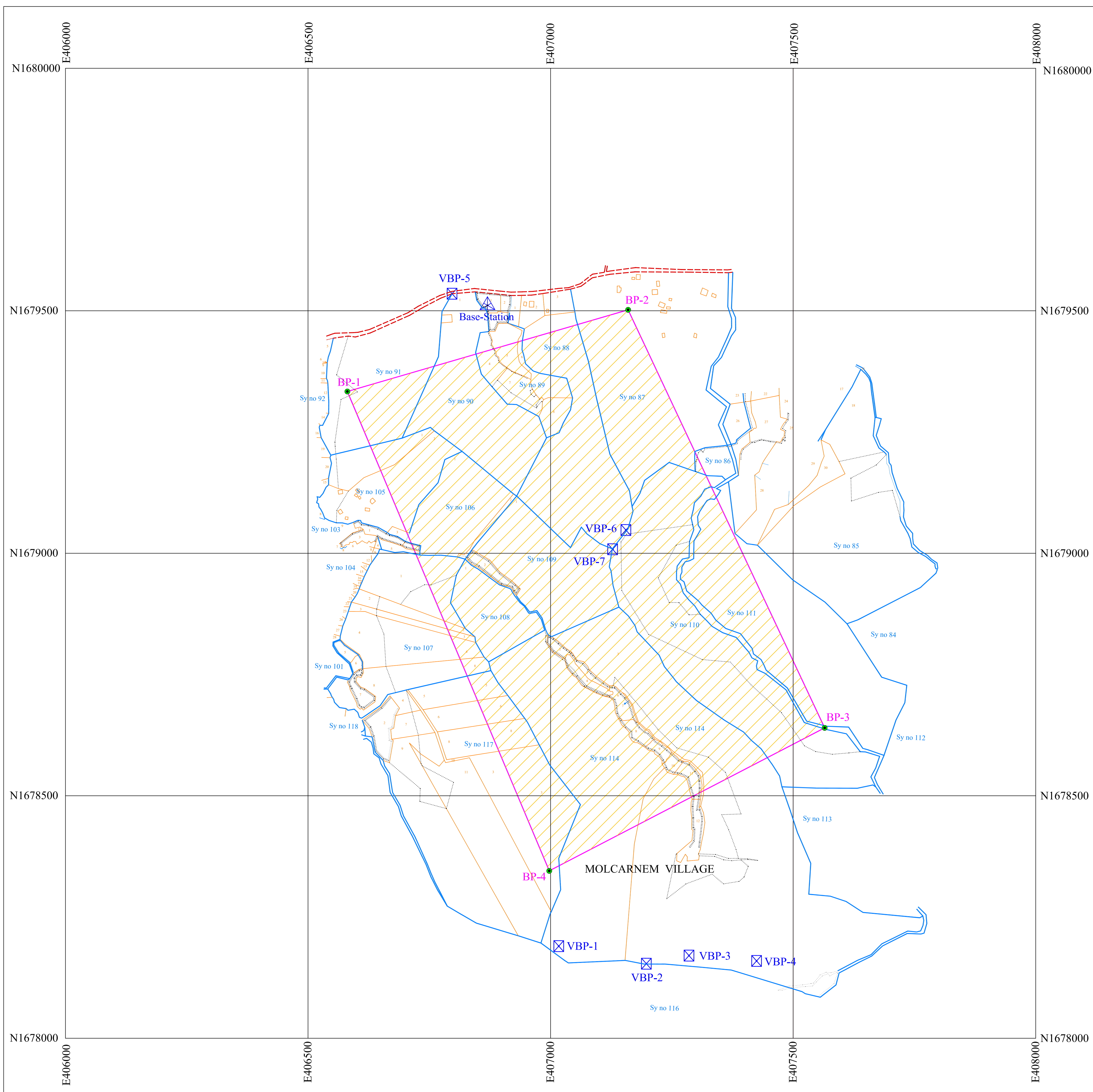
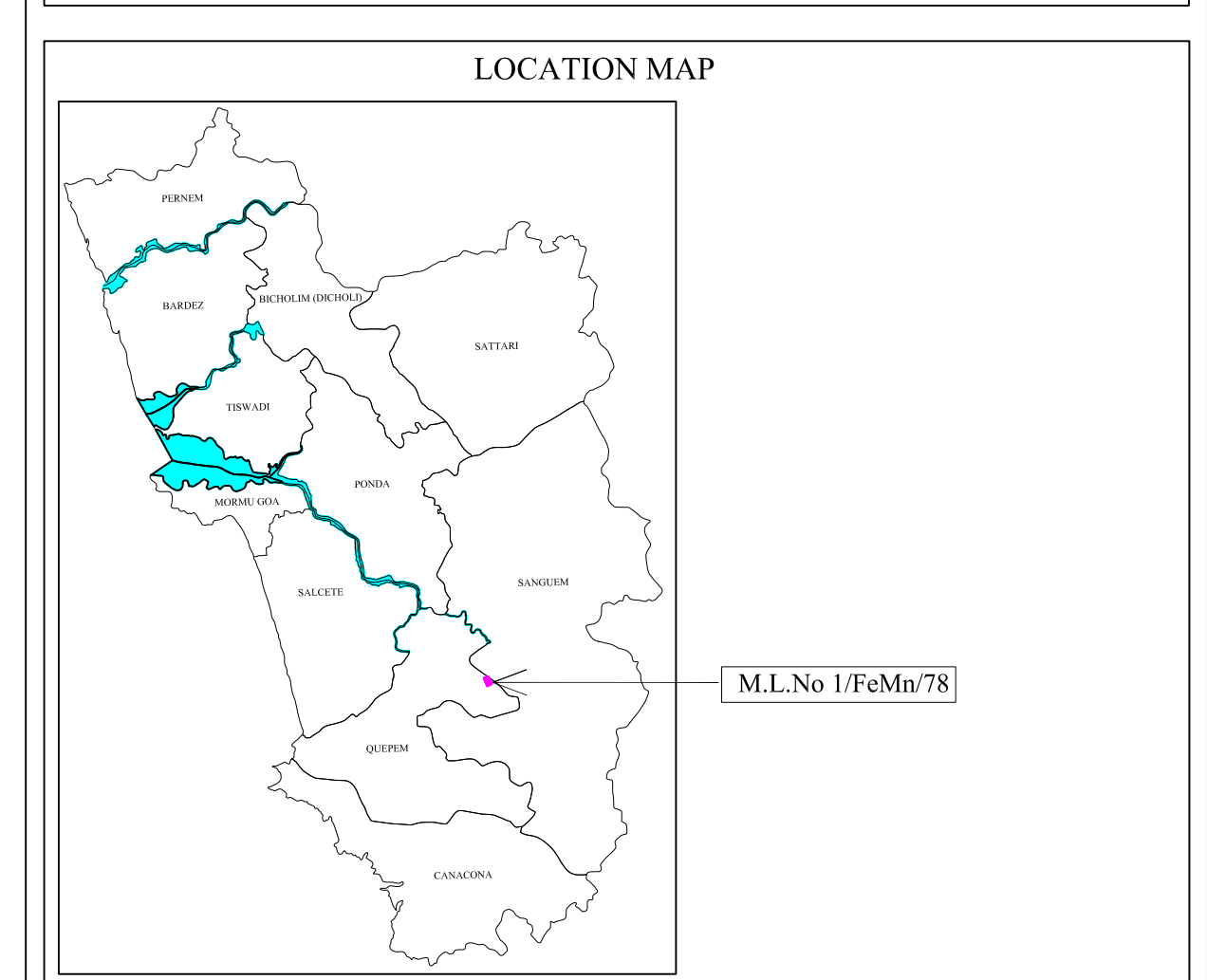


**GEO REFERENCED CADASTRAL MAP OF MOLCARNEM IRON & MANGANESE ORE MINES, MINING LEASE BEARING M.L.No-1/FeMn/78,
SITUATED IN MOLCARNEM VILLAGE OF QUEPEM TALUKA,SOUTH GOA DISTRICT,GOA STATE.**



- 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
 - CART TRACK
 - ROAD

DATUM : WGS 84
PROJECTION: UTM_ZONE_43N



CERTIFICATE

This is to certify that the boundary pillars of which the DGPS survey readings are taken are the boundary pillars situated on ground for M.L.No.1/FeMn/78. The same are surveyed as required by the Indian Bureau of Mines vide their Circular No.2/2010 dated 6-4-2010

Gajanan S.Padiyar
Owner

CERTIFICATE

This is to certify that the boundary pillars as shown by Shri Gajanan.S.Padiyar (Owner) was surveyed by our team led by 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 Baruca of Mines vide their Circular No.2/2010 dated 6-4-2010

Kaliprasad S.B
Chaitanya Geo Lynx

AREA AS WRITTEN ON LEASE PLAN	65.24 Ha.
AREA DETERMINED AFTER DIGITISATION OF LEASE PLAN	62.74 Ha.
ACTUAL AREA AFTER DGPS SURVEY	62.54 Ha.

Sno	Village Name	Survey No	Area In Ha
1	Molcarnem	87	04.83
2	Molcarnem	88	05.76
3	Molcarnem	89	01.88
4	Molcarnem	90	04.16
5	Molcarnem	91	01.56
6	Molcarnem	104	00.02
7	Molcarnem	105	01.89
8	Molcarnem	106	02.85
9	Molcarnem	107	01.23
10	Molcarnem	108	04.76
11	Molcarnem	109	04.76
12	Molcarnem	110	08.99
13	Molcarnem	111	03.85
14	Molcarnem	114	14.54
15	Molcarnem	117	03.24

Sno	PONT ID	LATITUDE	LONGITUDE	NORTHING	EASTING	DATE
1	Base-Station	15°11'23.53021"	74°07'58.76988"	1679511.215	406869.795	02-06-2013
2	BP-1	15°11'17.71279"	74°07'49.11897"	1679333.606	406581.105	16-06-2013
3	BP-2	15°11'23.26767"	74°08'08.48975"	1679501.999	407159.801	16-06-2013
4	BP-3	15°10'55.26791"	74°08'22.18065"	1678640.040	407564.947	16-06-2013
5	BP-4	15°10'45.60016"	74°08'03.19657"	1678345.215	406997.273	16-06-2013
6	VBP-1	15°10'40.55038"	74°08'03.87402"	1678189.970	407016.875	02-06-2013
7	VBP-2	15°10'39.39295"	74°08'09.92832"	1678153.692	407197.403	02-06-2013
8	VBP-3	15°10'39.94917"	74°08'12.87264"	1678170.436	407285.333	02-06-2013
9	VBP-4	15°10'39.60906"	74°08'17.54241"	1678159.436	407424.643	02-06-2013
10	VBP-5	15°11'24.30157"	74°07'56.32495"	1679535.206	406796.934	16-06-2013
11	VBP-6	15°11'08.48856"	74°08'08.39755"	1679047.893	407155.255	16-06-2013
12	VBP-7	15°11'07.19446"	74°08'07.48452"	1679008.236	407127.852	16-06-2013

Prepared By
CHAITHANYA GEO LYNX
GOVERNMENT OF GOA (Department of Geology)
SURVEY, EXPLORATION, MINING & ENVIRONMENTAL
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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