

RESTRICTED

FIRST EDITION

Magnetic Variation from True North about 1° West in 1970.
(Annual change negligible).

No. 46 G

BHARUCH & SURAT DISTRICTS.

Surveyed 1972-73.

GUJARAT



Scale: 1:50,000

Index to Sheets

46 G/6	46 G/10	46 G/14
46 G/7	46 G/11	46 G/15
46 G/8	46 G/12	46 G/16

Legend:

- Roads, metalled: according to importance: distance shown
- unmetalled: do
- Cart-track, pack-track and path: Foot-path with bridge
- Bridges: with pier without. Causeway, ford or ferry
- Streams: with space in both directions
- Dam: masonry or rock-fill: earthwork: dam
- River banks: stony: deep: 3 to 6 metres: over 6 metres
- dry: with water channel: with island & rocks: tidal river
- Submerged rocks: Shoal: Swamp: Reeds
- Wells: (stand) (cistern) (tube) (hand) (dug) (bore) (electric)
- Embarkments: road or rail tank: Broken ground
- Railways: broad gauge: double single with station: other
- other gauges: do
- Light railway or tramway: Trolleybus line: Cattle cart with wheel
- Contours: with sub-features: Rocky: Slopes: Cliffs
- Sand Reservoir: (filled) (empty) (dune) (surrounding) (shifting dunes)

Index to Sheets

46 G/6	46 G/10	46 G/14
46 G/7	46 G/11	46 G/15
46 G/8	46 G/12	46 G/16

HEIGTS & CONTOURS IN METRES
CONTOUR INTERVAL 20 METRES

Contours are approximate.
A relative height of 20 metres represents the approximate height in metres, between the top and bottom of a steep slope.
Wooded areas are coloured green. Scattered trees and other vegetation are in green, but prominent surveyed trees are in black.
*Not applicable.

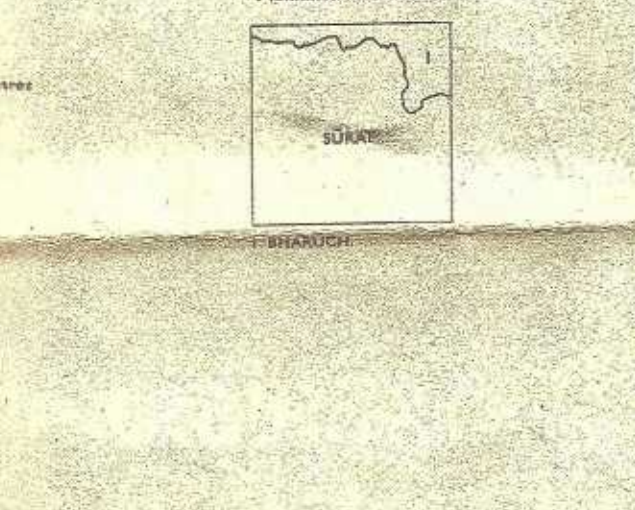
Water features are shown in blue where they generally drain under.

Cultivated areas are coloured yellow.

The exterior boundaries of areas of Reserved or Protected Forests are shown by green inclusions.

The triangulated heights and contours in this sheet have not been adjusted to the heights of the spirit-levelled benchmarks and may not be strictly in accordance with them.

The kilometre scale numbers along roads are shown in slant type, e.g. '3' whereas milestone numbers are shown in upright type, e.g. '3'.



Legend

Towns or Villages: inhabited: deserted: Fort	200	200	200
Huts: permanent: temporary: Tower: Antiquities	200	200	200
Temple: Chhatra: Church: Mosque: Jagan: Tomb: Graves	200	200	200
Lighthouse: Lightship: Buoy: Lighted: unlighted: Anchorage	200	200	200
Mine: Vine on trails: Grass: Scrub	200	200	200
Palms: palm grove: Pinnacles: Conifer: Bamboo: Other trees	200	200	200
Boundary: international: district: sub-division: taluk: forest	200	200	200
State: demarcated: undemarcated	200	200	200
District: sub-division: taluk: forest	200	200	200
Survey: (photo) (aerial) (ground) (satellite) (triangulation)	200	200	200
Height: (triangulation) (station) (point) (approximate)	200	200	200
Sanctuary: (wildlife) (forest) (national) (state)	200	200	200
Post office: Telegraph office: Combined office: Police station: P.O.	200	200	200
Bungalow: (dwelling) (inspector) (post-house)	200	200	200
Circuit house: Camping ground: Forest: reserved: protected: CH	200	200	200
Spaced names: administrative: locality or tribal	200	200	200

REFER TO THIS MAP AS:- 1:50,000
SHEET 46 G/11 FIRST EDITION

Diversion Area

Executive Engineer
Ver-II Project Dn. Vyara.

BOMBAY

BROACH & SURAT DISTRICTS.

Surveyed 1947-49.

Magnetic Variation from True North about $1\frac{1}{2}^{\circ}$ West in 1953.
(Increasing by about $2'$ annually).



Reg. No. B380 HD 56 (S.C. 6-15) - 3612 58.

Roads, metalled according to importance, mileposts
unmetalled do do bridge

Car track, pack-track and pass Foot-path with bridge
Bridges, with piers, without Causeway, Ford or Ferry
Stream, with track in bed, undrained Canal
Draught masonry or rock-filled earthwork, Water-lift in Madras
River banks, shelving steep over 10 ft., over 30 ft.
dry with water channel, with island or rock-filled river
Submerged rocks, Shoal, Swamp, floods
Wells, lined, unlined, Spill, tanks, perennial, dry
Embankments, grass or culti-land, broken ground
Railways, broad gauge, cross-tie, single line, with station under control
other gauges do do, with metalled, do
Light railway or tramway, telegraph line, Cutting, with tunnel
Contours, Form lines, Rocky slopes, Cliffs
Sand features, (Mud) sand, and permanent, (Dunes) shifting

Index to Sheets.

$\frac{46}{2}G$	$\frac{46}{6}G$	$\frac{46}{10}G$
$\frac{46}{3}G$	$\frac{46}{7}G$	$\frac{46}{11}G$
$\frac{46}{4}G$	$\frac{46}{8}G$	$\frac{46}{12}G$

Published under the direction of Brigadier Gamahir Singh, M.S. (Ind), Surveyor General of India.

1956.
E INCH

Scale 1 inch to a mile or 1:63,360.

Furlongs 0 1 2 3 4 5 6 Miles 0 1 2 3

Metres 0 500 1000 Kilometres 0 1 2 3 4 5

Contour Interval 50 feet

Water features are shown in blue where they generally contain water.

Cultivated areas are coloured yellow.

The exterior boundaries of areas of Reserved or Protected Forests are shown by green ribanda.

Contours are approximate.

A relative height, 225', represents the approximate height, in feet, between the top and bottom of a steep slope.

Wooded areas are coloured green. Scattered trees and other vegetation are in green, but prominent, surveyed trees are in black.

Boundaries of Reserved Forests on this sheet have been entered from 4-Inch Forest Surveys carried out by the Survey of India during 1953-55.

Administrative Index.

SURAT

1. BROACH

PRINTED AT THE BUREAU OF INDIA OFFICES (MLQ)

Towns or Villages: Inhabited, deserted, Fort		
Huts, Immigrant, temporary, Tower, Antiquities		
Temples, Church, Mosque, Quays, Tomb, Graves		
Lighthouses, Lightships, Buoy, Islands, unlighted, Anchorage		
Vine, clove, vanilla, Grass, Scrub		
Palm, palm-orchard, Mountain, Center, Bamboo, Other trees		
Boundary, International		
State, Government, Unincorporated		
Dispersal, subunit, tabern, or other forest		
Boundary, railways, surveyed, unlocated, village, junction		
Height, triangulation, station, point, Approximate		
Barrack, military, garrison, canton, camp, school		
Post office, Telegraph office, Combined office, Police station		
Dumplings, food, or travellers' inspection, Post-house		
Circuits, horse, camping, ground, forest, reserved, protected		
Spaced names: Administrative, locality or tribal		

200 200 200

BM 200 200 200 200

PO TO PO PS

DB (B) (C) (H) (P) (T)

CF CR RF PF

KIKRI

NAGA

FEET	METRES
50	= 15.24
100	= 30.48
500	= 152.40
1,000	= 304.79
3,000	= 914.38
5,000	= 1,523.92
10,000	= 3,047.94
15,000	= 4,571.91
20,000	= 6,095.88
25,000	= 7,619.85

GOVERNMENT OF INDIA COPYRIGHT 1956

Price: Two Rupees.

Refer to this map as :- ONE INCH
SHEET 46 G/7 SECOND EDITION

Executive Engineer
Ver-II Project Dn. Vyara.