

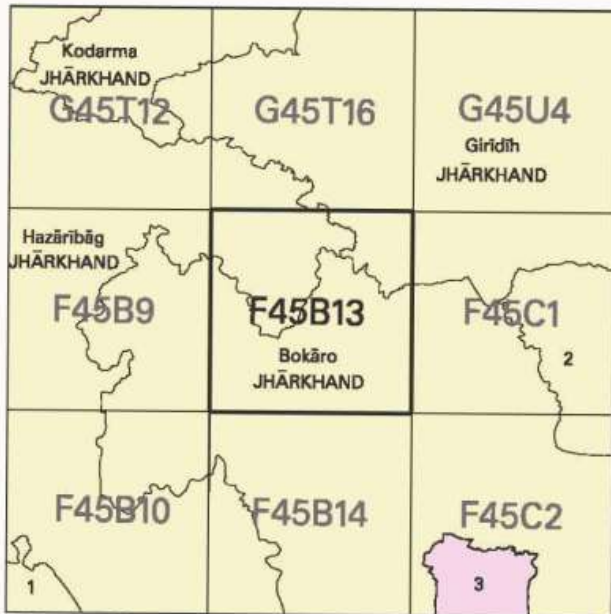


निर्यात के लिए नहीं NOT FOR EXPORT

OPEN SERIES
MAP

No. F45B13

Scale 1:50,000



1 Ranchi, JHARKHAND.
2 Dhanbad, JHARKHAND.
3 Purulia, WEST BENGAL.

भारतीय सर्वेक्षण विभाग

SURVEY OF INDIA

1st Edition 2009.

Price : Rs. 50/-

CONVENTIONAL SYMBOLS

- Express Highway: with toll; with bridge; with distance stone ...
- Roads, metalled: according to importance ...
- Roads, double carriageway: according to importance ...
- Unmetalled road: Car-track, Pack-track with pass, Foot-path ...
- Streams: with bank to bank, underfed, Canal ...
- Dam: masonry or rock-filled, earthwork, Wall ...
- River: dry with water channel; with island & rocks, Tidal river ...
- Submerged rocks, Shoal, Swamp, Reeds ...
- Wells: lined, unlined, Tube-well, Spring, Tank, perennial, dry ...
- Embankments: road or rail, tank, Broken ground ...
- Railways, broad gauge: double single with station; under construction ...
- Railways, other gauges: double single with distance stone; do ...
- Miscellaneous line or tramway, K.M. Cutting with tunnel ...
- Contours with sub-features, Rocky slopes, Cliffs ...
- Sand features: (Wind-blown-sand, dunes, etc.) (Dunes, etc.) ...
- Towns or Villages: Metalled, unmetalled, Fort ...
- Hate, permanent, temporary, Tower, Antenna ...
- Temples, Church, Mosque, Ghat, Tomb, Grave ...
- Lighthouse, Lightship, Buoy, Lighted, unlighted, Anchorage ...
- Mine: Mine on trails, Open, Sink ...
- Palms: palm trees, other, Plantain, Conifer, Bamboo, Other trees ...
- Artes: cultivated, wooded, Surveyed tree ...
- Boundary, International ...
- state demarcated, undemarcated ...
- district, subdivision, taluk or thikah, forest ...
- Boundary pillars: surveyed, uncoloured, village junction ...
- Height, triangulation, station, public approximation ...
- Boundary mark, boundary, survey, canal ...
- Post office, Telegraph office, Overhead tank ...
- Rail house or inspection bungalow, Check house, Police station ...
- Camping ground, Forest: reserved, protected ...
- Speed names: administrative, locality or tribal ...
- Hospital, Dispensary, Veterinary hospital ...
- Aerodrome, heliport, Tourist site ...
- Power line: with pylons surveyed, with poles unsurveyed ...

REFERENCE

City Chimney

NOTES :-

Heights are in metres and above Indian mean sea level.
Contours are approximate.
A relative height, in, represents the approximate height, in metres, between the top and bottom of a steep slope.
National Highway No. 2 is passing through the north-east corner of the sheet.
The triangulated heights and contours in this sheet have not been adjusted to the heights of the spirit-levelled bench - marks and may not be strictly in accordance with them.

COMPILED INDEX

A. Surveyed during 1975-76. Updated for major details during 2004-05.

Projection - UTM Datum - WGS 84
Magnetic Variation from True North about 1/2° West in 2005.
(Changing by about 1' annually)
Scale 1:50,000
Measures 1000 500 0 500 1000 2000 3000 Metres
CONTOUR INTERVAL 10 METRES

For further details about this map, please contact
Director
Jharkhand Geo-Spatial Data Centre
Survey of India, Dhanbad
Ranchi - 834002
Fax : 0651 - 2482789

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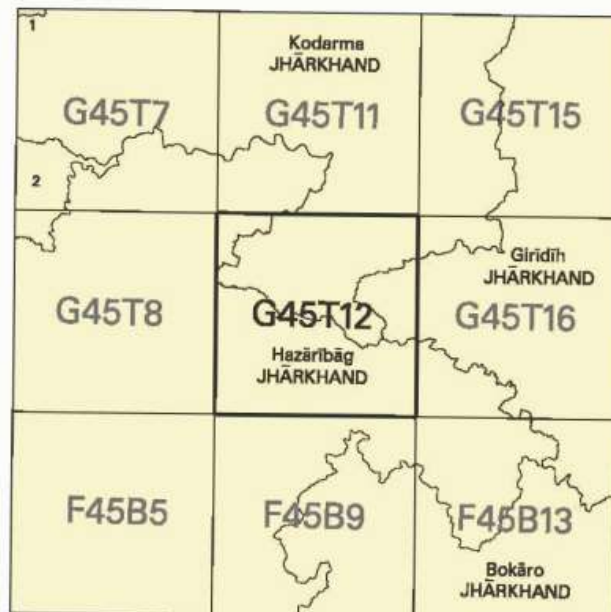


निर्यात के लिए नहीं NOT FOR EXPORT

OPEN SERIES
MAP

No. G45T12

Scale 1:50,000



1 Gaya, BHAR.
2 Chota, JHARKHAND.

भारतीय सर्वेक्षण विभाग

SURVEY OF INDIA

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Price : Rs. 50/-

CONVENTIONAL SYMBOLS

- Express Highway: with toll; with bridge; with distance stone
Roads, metalled according to importance
Unmetalled road. Cart-track. Path. Road with pass. Foot path.
Streams: with trend to left; undisturbed. Canal.
Dams: masonry or rock-filled; earthenwork. Weir.
River: dry with water channel; with island & rocks. Tide river.
Submerged rocks. Shoal. Swamp. Reeds.
Water: lined: unfilled. Tube-well. Spring. Tanka: perennial; dry.
Embankment: road or rail; tank. Broken ground.
Railways, broad gauge: double; single with station; under construction.
Railways, other gauge: double; single with distance stone; do.
Mineral line or tramway. Kib. Casing with tunnel.
Contours with auto-features. Rocky slopes. Cliff.
Sand features: (dunes, dunes, hills, depressions). (Dunes, dunes, hills, depressions).
Towns or Villages: inhabited; deserted. Fort.
Habit: permanent; temporary. Tower. Antiquities.
Trench. Obelisk. Church. Mosque. Sagar. Tomb. Grove.
Lighthouse. Lightship. Buoy: lighted; unlighted. Anchorage.
Mine: Vise on traffic. Grass. Scrub.
Palm: palmyra; other. Plantain. Conifer. Bamboo. Other trees.
Areas: cultivated; wooded. Surveyed tree.
Boundary: international.
states: demarcated; undemarcated.
district: subdivision, taluk or taluk forest.
Boundary: shown; surveyed; uncoloured; village information.
Height: triangulation; station; spot; approximate. 2000 200 200
Bench-mark: geodetic; tertiary; serial. BM 63-3 BM 63-3
Post office. Telegraph office. Overhead tank.
Rest house or inspection bungalow. Circuit house. Police station.
Camping ground. Forest: reserved; protected.
Speed names: administrative; locality or tribal.
Hospital. Dispensary. Veterinary hospital.
Aerodrome. Helipad. Tourist site.
Power line: with pylons surveyed; with poles unsurveyed.

REFERENCE

NV 2 National Highway No.2

NOTES

Heights are in metres and above Indian mean sea level.
Contours are approximate.
Tanks shown dry. In this area, usually contain water from July to December.
A native height, 'A', represents the approximate height, in metres, between the top and bottom of a steep slope.
Forest boundaries are not clearly demarcated but have been surveyed as pointed out by the local officials on the ground. The common boundaries of the forest have not been shown for want of reliable information.
The triangulated heights and contours in this sheet have not been adjusted to the heights of the earth-levelled bench-marks and may not be strictly in accordance with them.

COMPILED INDEX

A. Compiled from 1:25,000 survey 1978-79. Updated for major details during 2004-05.



Projection - UTM Datum - WGS 84

Magnetic Variation from True North about 1° West in 2005.
(Decreasing by about 1' annually).

1:50,000

Scale 1:50,000
1 cm = 500 m
2 cm = 1 km
CONTOUR INTERVAL 20 METRES

For further details about this map, please contact

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Jharkhand Geo-Spatial Data Centre

Survey of India, Durgam

Ranchi - 834002

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Chalanga Land Map

2.3 acre plot shown in red colour
Plot number - 443
Khata number - 50
Thana number - 203



सर्वेक्षण विभाग द्वारा प्रकाशित
Published under the direction of Surveyor General of India,
Survey of India, Hithibarkala Estate, Post Box No. 37, Dehra Dun - 248001 (Uttarakhand),
Department of Science & Technology, Government of India.

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Scale 1:50,000

1 Giridih, JHARKHAND.
2 Bokaro, JHARKHAND

1st Edition 2009

100

Express highway with toll, with bridge, with distance stone			
Roads, metalled according to importance			
Roads, double carriageway according to importance			
Unmetalled road: Cart-track, Pack-track and foot path			
Roads with track in island, canal			
Small narrow rock track, narrow, river			
Drain: dry with water channel, without canal, Tidal river			
Submerged roads: Rock, Swamp, Reeds			
Walls: Iron, tiled, Tube-wall, Spine terminal, dry			
Embankments: road or rail, track, Broken ground			
Railways, broad gauge; double, single, single station, under construction			
Railways, narrow gauge: double, single with distance stone, do.			
Mineral line or railway: Rail, Road			
Contours with sub-features: Rocky slopes, cliffs			
Sand features (F&E) (Zsund) (Hindmarsh) (Obtuse) (washed)			
Towns or Villages: inhabited, deserted, Port			
Ham permanent, temporary: Town, Aqueducts			
Temple, Church, Church Mission, Temple, Town, Graves			
Temples, Churches, Churches, Churches, Churches, Churches			
Place name in hills, Ganga, South			
Palm, pines, other: Plantation, Corral, Bamboo, Other trees			
Areas: cultivated, wooded, Surveyed trees			
Boundary: international			
_____ state demarcated, undemarcated			
_____ state, subdivision, valley of, cliff, forest			
Boundary points: surveyed, controlled			
Hills, triangulation station, point, approximate			
Benchmark, magnetic; tertiary, canal		B 200	200
Post office: Telegraph office, Overland track		BM 63	284 63
Rail route or inspection journey: Goods, Police, Hulla station			
Camping ground: Forest, reserved, protected		COI	RF
_____ forest, reserved, protected, locality or tribal		KORI	
Hotel, Dispensary, Veterinary, Hospital / Dispensary			NGCA
Power line: Hydel, Turbine, Turbine site			
Americ line: with pumps, surveyed, with poles, unsurveyed			

REFERENCES

NOTES :-

Heights are in metres and above Indian mean sea level.

Contours are approximate.

The exterior boundaries of Areas of Reserved or Protected Forests are shown by green ribands.

The common boundaries of Reserved and Protected Forests in this sheet have not been shown for want of reliable information.

A relative height, Δ , represents the approximate height, in metres, between the top and bottom of a steep slope.

The kilometre stone numbers along roads are shown in slant type, e.g. '5' whereas milestone numbers are shown in upright type, e.g. '5'.

COMPILATION INDEX

A. Surveyed during 1978-79. Updated from Satellite imagery of 2007 during 2008-09

Projection - UTM Datum - WGS 84

Magnetic Variation from True North about $\frac{1}{2}^{\circ}$ West in 2005.

1:50 000

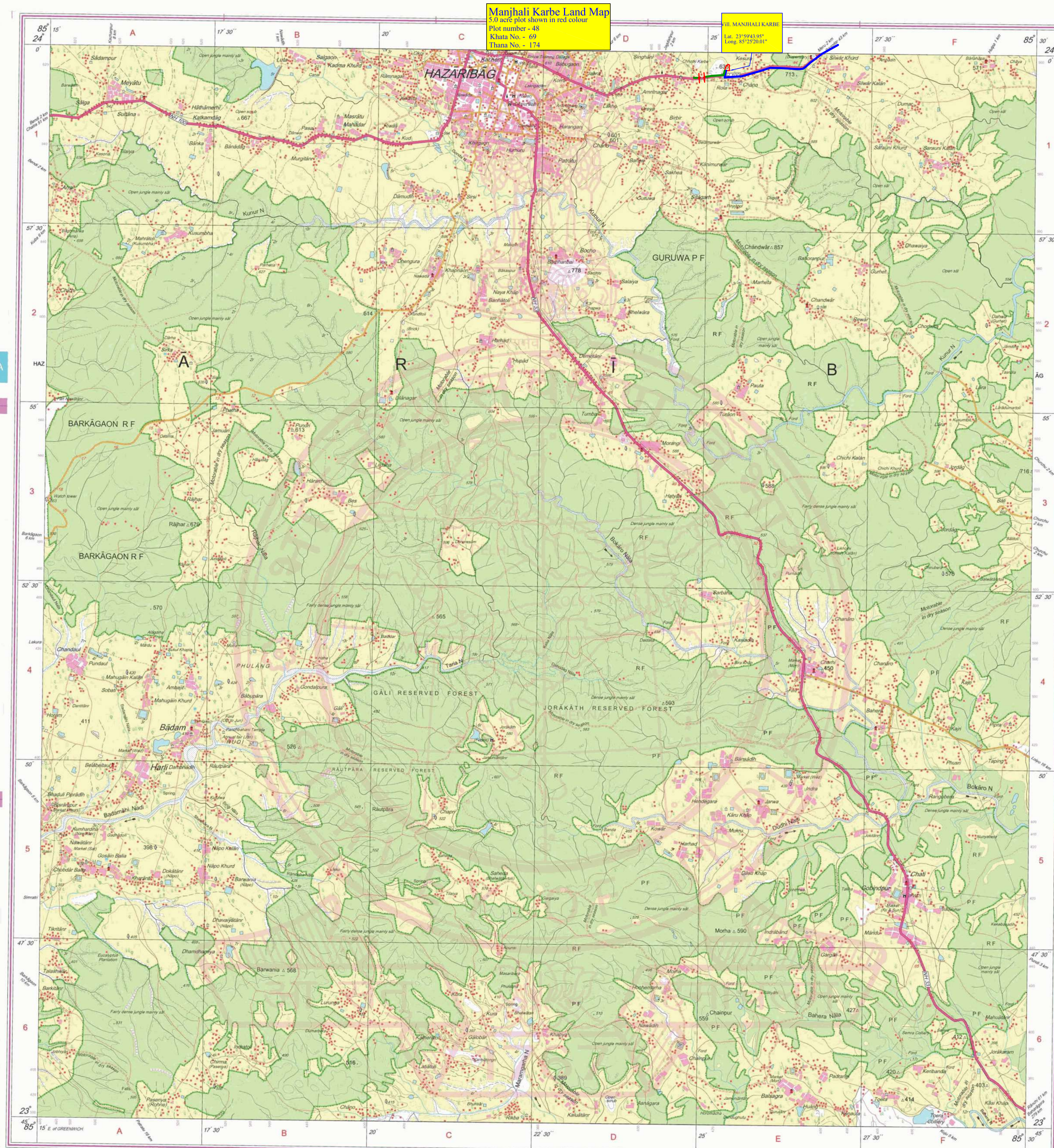
CONTOUR INTERVAL 20 METRES

For further details about this map, please contact
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Survey of India, Doranda
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Published under the direction of Surveyor General of India,
Survey of India, Hāthībarkala Estate, Post Box No.37, Dehra Dūn-248001 (Uttarākhānd)
Department of Science & Technology, Government of India.

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