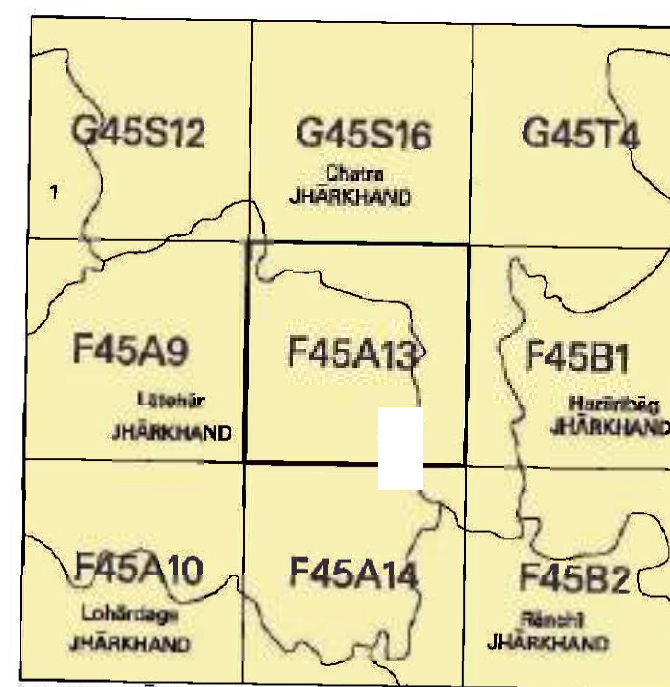




Scale 1:50,000



भारतीय सर्वेक्षण विभाग

SURVEY OF INDIA

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CONVENTIONAL SYMBOLS

1. *Normal highway*: with bridge, with distance note
 2. *Normal road*: according to importance
 3. *Trunk, double importance*: according to importance
 4. *Unimproved road*: Cam-truck, Pick-truck with pairs, Foot-path
 5. *Streams*: with back & bed; unimproved Canal
 6. *Dike*: masonry or rock walls; network: View
 7. *River*: dry with water channel; with island & tidal: *River*
 8. *Well-graded roads*: Road, Swamp, Ravine
 9. *Salt flat*: unimproved, Lake-pond, Spring, Tides; *permanently dry*
 10. *Embankment*: road or rail; *tree*: *Broaden ground*
 11. *Kilnway*, *broad gauge*: *carriage*, *engine* with *station*; under *concrete*
 12. *Highway*, *other gauges*: *double*; *single* with *distance* *station*; *do*
 13. *Mixed line* or *turnpike*, *Rail*, *Cutting* with *tunnel*
 14. *Common* with *side-furrows*, *Rocky slopes*, *Cuts*
 15. *Sea* *submarine* (fish-plant-life) (*oceanic*), (*oceanographic*)
 16. *Town or village*: *imhabited*, *deserted*, *Fort*
 17. *Place*: *imhabited*, *imhabited*, *Town*, *Artificial*
 18. *Upland*, *Chin*, *Chung*, *Moque*, *Alps*, *Tibet*, *Graves*
 19. *Lighting*: *Lighting*, *Byways* *lighted*, *unlighted*, *Antelope*
 20. *Moss*, *Woe* or *grass*, *Green*, *Scrub*
 21. *Hay*, *timber*; *other*, *Harsh*, *Coastal*, *Bamboo*, *Other trees*
 22. *Area*: *cultivated*; *wilded*, *Survived tree*
 23. *Boundary*, *International*
 24. *Other*: *desertation*, *undemarcated*
 25. *district*: *subdivision*, *small* or *tribal*, *forest*
 26. *Boundary* *field*: *surrounded*, *subdivided*, *field*, *subdivision*
 27. *Highways*, *intergraded*: *station*; *post*, *approximate*
 28. *Search*: *marked*, *colours*; *terrace*; *land*
 29. *Post* *office*, *Telegaph* *office*, *Overland*, *car*
 30. *Point* *group* or *station*; *burglary*, *Drift*, *house*, *Police*, *station*
 31. *Camp*, *ground*, *Forest*: *marked*, *protected*
 32. *Speed*, *name*: *administrative*; *locally* or *tribal*
 33. *Hospital*, *Dispensary*, *Veterinary* *hospital*
 34. *Aerodrome*, *Hallport*, *Tourist* *etc.*
 35. *Power*, *line*: with *poles* *unwired* with *poles* *unwired*
 36. *Power*, *line*: with *poles* *unwired* with *poles* *unwired*

REFERENCE

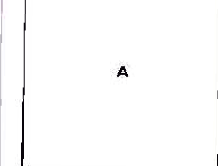
AM 99 National Highway No. 99

NOTES :-

Heights are in metres and above Indian mean sea level.
Contours are approximate.
Tents shown in dry, in this area usually contain water from July to December.
Unimproved roads and cart-tracks in this area are generally motorable in dry season.
The common boundaries of the Protected Forests at some places in this sheet have not been shown for want of reliable information.
A relative height, *Alt*, represents the approximate height, in metres, between the top and bottom of steep steps.
The vector boundaries of areas of Reserved or Protected Forests are shown by green rectangles.
The Minimum stream number along reaches are shown in some types, e.g. 5, 6, whereas maximum numbers are shown in solid line, e.g. 5, 6.

COMPILATION INDEX

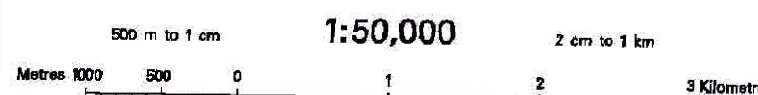
A. Surveyed during 1978-79. Updated for major details during 2004-05



Projection – UTM Datum – WGS 84

Magnetic Variation from True North about $\frac{1}{4}^{\circ}$ West in 2005
(Decreasing by about $1'$ annually)

1:50,000



CONTOUR INTERVAL 20 METRES

For further details about this map, please contact

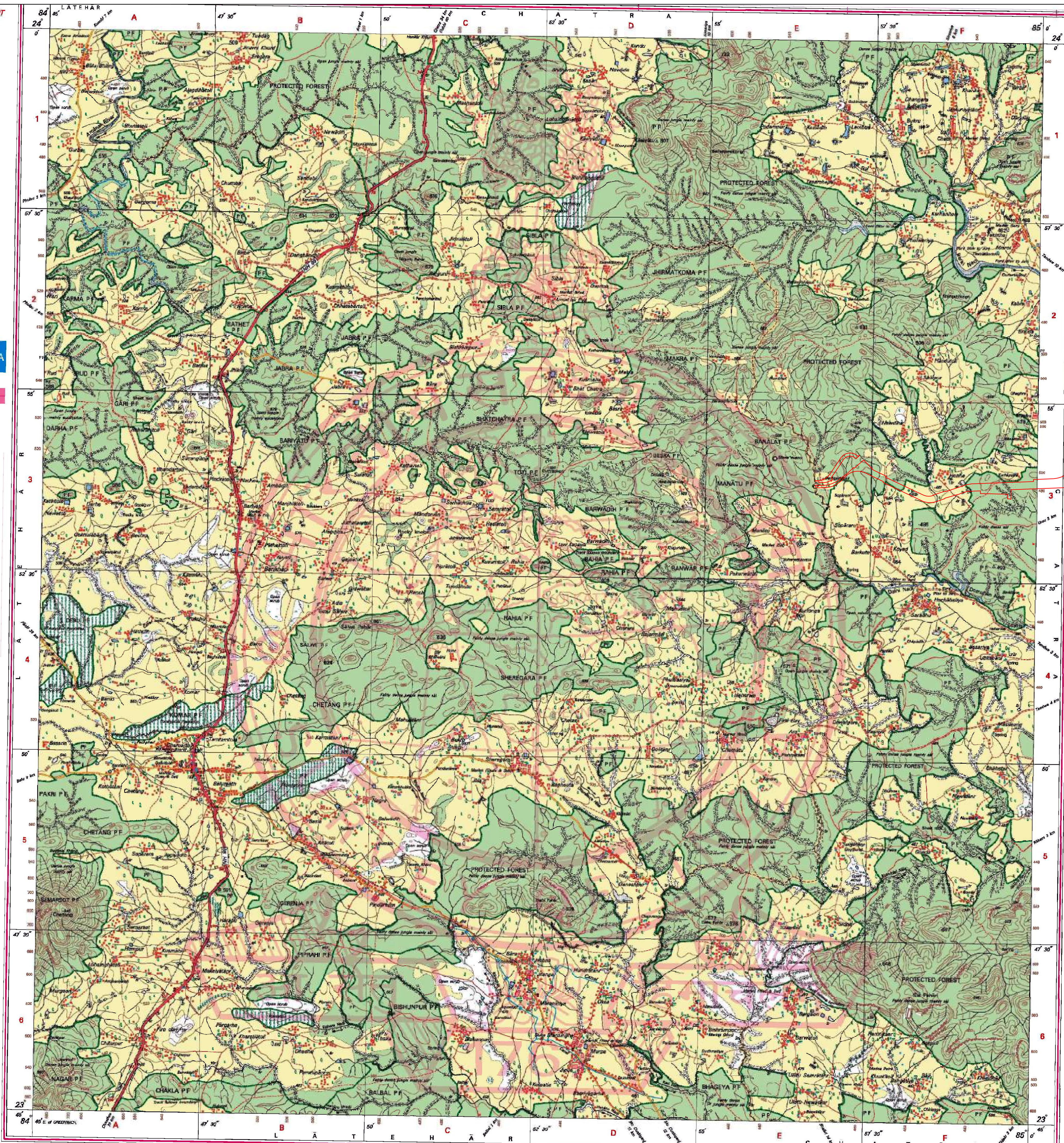
Director

Survey of India, Dora

Rānchi - 834002.

WEBSITE – www.surveyofindia.gov.in

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No. F45B1

Scale 1:50,000

G45S16 (72D/16) Chitra JHARKHAND	G45T4 (72H/4) Hazaribag JHARKHAND	G45T8 (72H/8) Hazaribag JHARKHAND
F45A13 (73A/13) Lohardaga JHARKHAND	F45B1 (73E/1) Lohardaga JHARKHAND	F45B5 (73E/5) Lohardaga JHARKHAND
F45A14 (73A/14) Lohardaga JHARKHAND	F45B2 (73E/2) Lohardaga JHARKHAND	F45B6 (73E/6) Lohardaga JHARKHAND

1 Lohardaga, JHARKHAND.

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CONVENTIONAL SYMBOLS

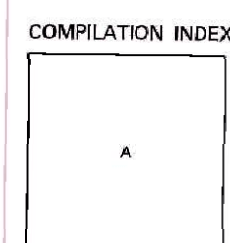
Express highway: with toll, with bridge, with distance stone	
Roads metalled, according to importance	
Roads double carriage way, according to importance	
Unmetalled road: with track, foot-path, with pass, foot-path	
Streams: with bridge, with ford, with dam, with weir	
Dams: with dam, with weir, with lock, with sluice	
River: dry with water channel, with island & rock, with ford, with weir	
Submerged rocks, Shoal, Swamp, Reed	
Wells: hand, unlined, Tube-well, Spring, Tank, perennial, dry	
Embankments: road or rail, bank, broken ground	
Railways, broad gauge: double, single with distance stone, etc.	
Railways, other gauges: double, single with distance stone, etc.	
Mineral: line or railway, Kib, Coking with tunnel	
Outcrops with soil-features, rocky slopes, cliffs	
Sand features: (Hills/Barren hills) (sandstone), (limestone), (granite)	
Towns or Villages: (habited), (deserted), Fort	
Huts: permanent, temporary, Tower, Antenna, etc.	
Temples, Chhatra, Church, Mosque, Light, Tomb, Grave, etc.	
Lighthouses, Lightships, Buoys: lighted, unlighted, Anchorage	
Mine: Vine or trench, Open, Shaft	
Palm: palm-tree, other, Fan-palm, Coconut, Bamboo, Other trees	
Areas: cultivated, wooded, Surveyed tree	
Boundary: international	
State: demarcated, undemarcated	
Statelet: subdivision, habit or tribal, forest	
Boundary pillars: surveyed, un-surveyed	
Height: trigonometrical station, peak, approximate	
Bound-mark: geodetic, survey, and	
Post office, Telegraph office, Overhead tank	
Rest house or inspection bungalow, Guard house, Police station	
Camping ground, Forest: reserved, protected	
Spotted names: administrative, locality or tribal	
Hospital, Dispensary, Veterinary, Hospital, Dispensary	
Airport, Helipad, Tourist site	
Power line: with pylons surveyed, with poles unsurveyed	

REFERENCE

NOV 09 National Highway No. 100.

NOTES :-

Heights are in metres and above Indian mean sea level.
Contours are approximate.
The kilometre scale numbers along roads and railways are shown in short type, e.g., 5', whereas: milestone numbers are shown in upright type, e.g., 5'.
Forests about which complete information is not available, have not been shown in this sheet.
A relative height, e.g., represents the approximate height, in metres, between the top and bottom of a steep slope.
The exact boundaries of areas of Reserved or Protected Forests are shown by green boards.



Projection - UTM Datum - WGS 84

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

1:50,000

600 m to 1 cm 2 cm to 1 km
Metres 1000 500 0 1 2 3 Kilometres
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.

Fax : 0651 - 2482789

WEBSITE - www.surveyofindia.gov.in

Legend

Total_Outer_Line

