



OPEN SERIES MAP

No. F45A1

Scale 1:50,000

G44X16	G45S4	G45S8
F44F13	F45A1	F45A5
F44F14	F45A2	F45A6

1 Chattr, JHARKHAND. 2 Gumla, JHARKHAND. 3 Lohardaga, JHARKHAND.

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, Cart-track, Pack-track with pairs Foot-path	
Streams, with track in bed, undefined Canal	
Dams, masonry or rock-filled, earthwork Weir	
River, dry with water channel, with island & rocks, Tidal river	
Submerged rocks, Shoal, Swamp, Reeds	
Wells, lined, unlined, Tube-well, Spring, Tank, perennial, dry	
Embarkments, road or rail, tank, Broken ground	
Railways, broad gauge, double, single with station, under constn.	
Railways, other gauges, double, single with distance stone, do.	
Mineral line or tramway, Kiln, Cutting with tunnel	
Contours with sub-feetures, Rocky slopes, Cliffs	
Sand features, (Wind-blown) Sand-hills (Dunes), (Dunes), (Shifting)	
Towns or Villages, Intahated, deserted, Fort	
Water, permanent, temporary, Tower, Antenna, etc.	
Temples, Chhatris, Church, Mosque, High, Tomb, Graves	
Lighthouses, Lightships, Buoy, light, unlighted, Anchorage	
Mine, Vene on trails, Grass, Scrub	
Palms, palmry, other, Plantain, Conifer, Bamboo, Other trees	
Areas, cultivated, wooded, Surveyed line	
Boundary, International	
State, demarcated, undemarcated	
District, subdivision, taluk or taluk, forest	
Boundary pillars, surveyed, uncollected, village, Intention	
Height, triangulated station, point, approximate	
Bench-mark, geodetic, tentative, sand	
Post office, Telegraph office, Overhead tank	
Rest house or inspection bungalow, Circuit house, Police station	
Camping ground, Forest rest-house, protected	
Speed names, administrative, locality or tribal	
Hospital, Dispensary, Veterinary hospital	
Kilometre, Milepost, Tourist site	
Airer line, with pylons surveyed, with poles unsurveyed	

Jio OFC Line

REFERENCES

Public Works Department NH 75 National Highway No. 75

NOTES

This map is in metres and above Indian mean sea level.  
 These are approximate.  
 Height, ... represents the approximate height, in metres, between the top and bottom of a slope.  
 Extent of boundaries of areas of Reserved or Protected Forests are shown by green bands, as shown dry, in this area usually contain water from July to December.  
 Kilometre stone numbers along roads and the railways are shown in slant type, e.g. '5'  
 New milestone numbers are shown in upright type, e.g. '3'.  
 This is a part of district boundary between Garhwa and Palamu Districts falling in sq. No. A/5 has been incorporated from trail map but has not been verified by the District authorities.  
 Iron boundaries between Reserved and Protected Forests at some places have not been shown for want of reliable information.

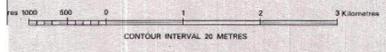
IMPLICATION INDEX

A. Compiled from 1:25,000 1979-80. Updated for major details during 2004-05.

Projection - UTM Datum - WGS 84

Magnetic Variation from True North about 1/2 West in 2005. (Decreasing by about 1' annually).

Scale 1:50,000



CONTOUR INTERVAL 20 METRES

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

WEBSITE - www.surveyofindia.gov.in





NOT FOR EXPORT

OPEN SERIES MAP  
No. F45A2  
Scale 1:50,000

F44F13 (63M13) Gierwa JHARKHAND	F45A1 (73A1) Palamu JHARKHAND	F45A5 (73A5)
F44F14 (63M14)	F45A2 (73A2)	F45A6 (73A6)
F44F15 (63M15) Surguja CHHATTISGARH	F45A3 (73A3) Gumla JHARKHAND	F45A7 (73A7)

1 Lohardaga, JHARKHAND.

भारतीय सर्वेक्षण विभाग SURVEY OF INDIA

1st Edition 2009.

Price : Rs. 50 /-

CONVENTIONAL SYMBOLS

Express highway: with toll; with bridge; with distance stone	
Road metalled: according to importance	
Roads double cartway: according to importance	
Unmetalled road: Cart-track; Pack-track with pack; Foot-path	
Streams: with track in bed; undrained; Canal	
Dams: masonry or rock filled; earthwork; Weir	
River: dry with water channel; with island & rocks; Tidal river	
Submerged rocks; Shoal; Swamp; Reeds	
Wells: lined; unlined; Tube-well; Spring; Tanks; Perennial; dry	
Embankments: road or rail; tank; Broken ground	
Railways, broad gauge: double; single with station; under constrn	
Railways, other gauges: double; single with distance stone; do	
Contours with sub-features: Rocky slopes; Cliffs	
Sand features: (1)flat; (2)sand-hills (permanent); (3)unesaturated	
Towns or Villages: inhabited; deserted; Fort	
Huts: permanent; temporary; Tower; Antiquities	
Temple; Chatri; Churon; Mosque; Ghat; Tomb; Graves	
Lighthouse; Lightship; Buoys: lighted; unlighted; Anchorage	
Mine: View on trails; Grass; Scrub	
Palms: palm-tree; other; Planain; Conifer; Bamboo; Other trees	
Areas: cultivated; wooded; Surveyed tree	
Boundary, international	
state; demarcated; undemarcated	
district; subdivision; taluk or tank; forest	
Boundary pillars: surveyed; unlocated	
Heights, triangulated; station; point; approximate	
Bench-mark: geodetic; tertiary; canal	
Post office; Telegraph office; Overhead tank	
Rest house or inspection bungalow; Circuit house; Police station	
Camping ground; Forest: reserved; protected	
Spaced names: administrative; locality or tribal	
Hospital; Dispensary; Veterinary hospital	
Aerodrome; Helipad; Tourist site	
Power line: with pylons surveyed; with poles unsurveyed	

Jio OFC Line

REFERENCE

PWD Public Works Department.

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 relative height, or, represents the approximate height, in metres, between the top and bottom of a steep slope.  
The exterior boundaries of areas of Reserved or Protected Forests are shown by green ribands.  
The kilometre stone numbers along roads are shown in upright type, e.g., 'S' whereas milestone numbers are shown in upright type, e.g., 'S'.

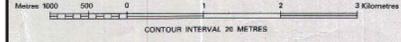
COMPILATION INDEX

A. Surveyed during 1979-80. Updated for major details from satellite imagery of 2007 during 2008-09.

Projection - UTM Datum - WGS 84

Magnetic Variation from True North about 1/4 West in 2005. (Decreasing by about 1 annuaty).

1:50,000



CONTOUR INTERVAL 20 METRES

For further details about this map, please contact Director

Jharkhand Geo-Spatial Data Centre

Survey of India, Doranda

Ranchi - 834002

Fax : 0651 - 2482789

WEBSITE - www.surveyofindia.gov.in



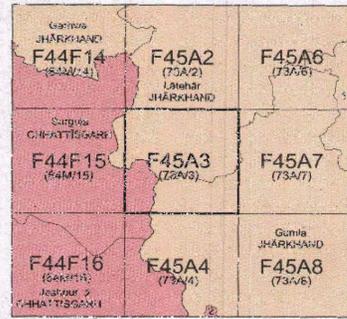


निर्गत के लिए नहीं NOT FOR EXPORT

OPEN SERIES MAP

No. F45A3

Scale 1:50,000



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
Rocks, double cartway, according to importance
Unmetalled road, cart-track, pack-track, with pass, foot path
Streams, with track in bed; underpass, Canal
Dams; masonry or rock filled; with pass, foot path
River; dry with water channel; with island & rocks; tidal river
Submerged rocks, Shoal, Swamp, Raids
Wells; Jhad, unlined, Tilted, well, Spring, Tanks; perennial, dry
Embankment, road or rail; tank, Broken ground
Problems, broad gauge, double; single with station, under construction
Railways, other gauges; Muckle; single with distance stone, 30
Mineral line or roadway, Kite, Cutting with tunnel
Contours with sub-intervals; Rocky slopes, Cliffs
Large features (1:25,000 scale) (2:50,000 scale)
Towns or villages; inhabited; deserted; Fort
Hill; permanent; temporary; Tower; Antiquities
Temples, Chhatra, Chattri, Mosque, Ghat, Tomb, Graves
Lightning; Light; Signal; lighted; unlighted; Anchorage
Mine; Vise on trails; Grass; Scrub
Plant; pinyon; other; Pinyon, Conifer, Bamboo, Other trees
Arise; 22/24/26; wooded; Surveyed line
Boundary, international
state; demarcated; undemarcated
District; subdivision, taluk or block; forest
Boundary pillar; surveyed; unlocated
Height; triangulated; station; point; approximate
Bench mark; geodetic; survey; canal
Post office; Telegraph office; Overhead tank
Head house or inspection bungalow; Circuit house; Police station
Camping ground; Forest; reserved; protected
Special farms; administrative; locality or tribal
Hospital; Dispensary; Veterinary Hospital / Dispensary
Ardennes; Hospital; Tourist site
Power line; with poles surveyed; with poles unsurveyed
Jio OFC Line

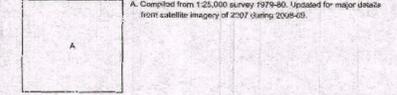
REFERENCE

Public Works Department.

NOTES

Heights are in metres and above Indian mean sea level.
Contours are approximate.
The state boundary between Jharkhand and Chhattisgarh States has been surveyed as per the...

COMPLETION INDEX



Projection - UTM Datum - WGS 84
Magnetic Variation from True North about 1/2 West in 2005.
Decreasing by about 1' annually.
Scale 1:50,000
600 m to 1 cm 2 cm to 1 km

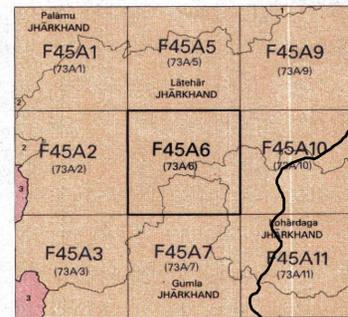
For further details about this map, please contact
Director
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Survey of India, Udaranda
Ranchi 834002
Fax: 0661 - 2482709

WEBSITE - www.surveyofindia.gov.in



No. F45A6

Scale 1:50,000



1 Chattri, JHARKHAND. 2 Garwhal, JHARKHAND.

भारतीय सर्वेक्षण विभाग SURVEY OF INDIA

1st Edition 2009. Price : Rs. 5/-

CONVENTIONAL SYMBOLS

- Express highway: with toll, with bridge, with distance stone
- Road metalled, according to importance
- Roads double carriageway, according to importance
- Unmetalled road, Cart-track, Pack-track with pees, Foot-path
- Streams: with track in bed, undefined, Canal
- Dams: masonry or rock-filled, earthwork, Weir
- River: dry with water channel, with island & rocks, Tidal river
- Submerged rocks, Shoal, Swamp, Reeds
- Wells: lined, unlined, Tube-well, Spring, Tanks: permanent, dry
- Embankments: road or rail, bank, Broken ground
- Railways, broad gauge, double, single with electric, under construction
- Railways, other gauges: double, single with electric, stone, do
- Mineral line or tramway, Kite, Cable, with tunnel
- Contours with sub-feetings, Rocky slopes, Cliffs
- Sand features: (dry) sand-hills, (permanent), (disappearing)
- Hot: permanent, temporary, Towns, Antiquities
- Temples, Chhatris, Church, Mosque, Igah, Tomb, Graves
- Lighthouses, Lightships, Buoys: lighted, unlighted, Anchorage
- Mine: Vise on trails, Grass, Scrub
- Palms: palm-tree, other, Parlatik, Conifer, Bamboo, Other trees
- Areas: cultivated, wooded, Surveyed trees
- Boundary: international
- State: demarcated, undemarcated
- District, subdivision, taluk or block, forest
- Boundary: Pillars: surveyed, uncollected
- Height: triangulation station: point approximate
- Bench-mark: geodetic, tertiary, canal
- Post office, Telegraph office, Overhead tank
- Rest house or inspection bungalow, Great house, Police station
- Camping ground, Forest: reserved, protected
- Spaced names: administrative, locality or tribal
- Hospital, Dispensary, Veterinary Hospital / Dispensary
- Aerodrome, Helipad, Tourist site
- Power line: with pylons surveyed, with poles unsurveyed

Jio OFC Line

REFERENCES

PWD Public Works Department

NOTES

Heights are in metres and above Indian mean sea level.  
 Contours are approximate.  
 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.  
 The kilometre stone numbers along roads and railways are shown in slant type, e.g. 5' whereas milestone numbers are shown in upright type, e.g. 5.  
 The common boundaries of some Reserved and Protected Forests have not been shown for want of reliable information.  
 A portion of National Highway No. 75 passes through the Northeast corner of this sheet.  
 The exterior boundaries of areas of Reserved or Protected Forests are shown by green ribands.  
 Tanks shown dry in this area usually contain water from July to December.  
 Unmetalled roads and cart-tracks in this sheet are generally motorable in dry season.

COMPILATION INDEX

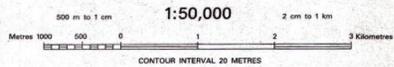
A. Surveyed during 1979-80. Updated for major details from satellite imagery of 2007 during 2008-09.



Projection - UTM Datum - WGS 84

Magnetic Variation from True North about 1/4° west in 2005.

(Decreasing by about 1' annually).



CONTOUR INTERVAL 20 METRES

For further details about this map, please contact

Director  
 Jharkhand Geo-Spatial Data Centre  
 Survey of India, Doranda  
 Ranchi - 834002  
 Fax : 0651 - 2482789



**No. F45A7**  
 Scale 1:50,000

F45A2 (73A/2)	F45A6 (73A/6)	F45A10 (73A/10)
F45A3 (73A/3)	F45A7 (73A/7)	F45A11 (73A/11)
F45A4 (73A/4)	F45A8 (73A/8)	F45A12 (73A/12)

1 Garhwa, JHARKHAND.  
 2 Surguja, CHHATTISGARH.  
 3 Jashpur, CHHATTISGARH.

भारतीय सर्वेक्षण विभाग SURVEY OF INDIA

1st Edition: 2009. Price : Rs. 50/-

**CONVENTIONAL SYMBOLS**

Express highway with 4 or 6 lanes with bridge with distance stone	
Road cut/bridged according to importance	
Roads (double carriageway) according to importance	
Unimproved road, cart-track, pack-track and path, foot path	
Swampy with track in bed, unimproved Canal	
Dam, masonry or rock-filled, masonry Well	
Open dry with water channel, with island & rocks, 200' over	
Swampy ground, local Swamps, floods	
Wells, hand, unlined, Tube-well, Spring, Tanks, cemented, dry	
Embankments, road or rail, bank, Broken ground	
Railways broad gauge, double, single with station, under construction	
Railways other gauges, double, single with station, stone do	
Mine, coal or iron, shaft, cutting, with tunnel	
Contours with full features, Rocky slopes, Cliff	
Land Features: (Mts, 2000-ft hills, permanent), (Discontinuous)	
Towns or Villages: inhabited, deserted, Fort	
Hills, permanent, temporary, Tower, Antennae	
Temples, Churches, Mosques, Gurdwara, Tombs, Graves	
Lighthouses, Lightships, Buoys, Eddies, unlighted, Amshores	
Moss, Vines on trees, Grass, Scrub	
Palms, palms, other, Plantain, Cactus, Bamboo, Other trees	
Areas: cultivated, wooded, Surveyed tree	
Boundary, International	
Water, permanent, unimproved	
Water, permanent, with 100' or less forest	
Boundary pillars, surveyed, unlined	
Height, triangulated, station, peak, approximate	
Bench-mark, geodetic, tertiary, aerial	
Post office, Telegraph office, Overhead tank	
Post house or inspection bungalow, Circuit house, Police station	
Camping ground, Forest reserved, protected	
Gravel, named administrative, health or tribal	
Hospital, Dispensary, Veterinary, Hospital/Dispensary	
Aerodromes, Heliport, Tourist site	
Power line with pylon, surveyed, with poles, unsurveyed	

Jio OFC Line

**NOTES**  
 Heights are in metres, and above Indian mean sea level.  
 Contours are approximate.  
 Ticks shown on this map usually indicate water from July to December.  
 Unimproved roads and cart-roads in this area are generally not shown in this season.  
 The reserved and Protected Forest boundaries in this sheet have been surveyed as far as possible by the local officials on the ground, but have not been verified by the concerned forest authorities.  
 The extent, boundaries of Reserved and Protected Forests, except at some places in this sheet, have not been shown for want of reliable information.  
 A relative height of 200 metres, indicates the approximate height in metres, between the top and bottom of a steep slope.  
 The magnetic slope numbers along roads and railways are shown in slant type, e.g. 1/2, 3/4, 5/6, 7/8, 9/10, 11/12, 13/14, 15/16, 17/18, 19/20, 21/22, 23/24, 25/26, 27/28, 29/30, 31/32, 33/34, 35/36, 37/38, 39/40, 41/42, 43/44, 45/46, 47/48, 49/50, 51/52, 53/54, 55/56, 57/58, 59/60, 61/62, 63/64, 65/66, 67/68, 69/70, 71/72, 73/74, 75/76, 77/78, 79/80, 81/82, 83/84, 85/86, 87/88, 89/90, 91/92, 93/94, 95/96, 97/98, 99/100, 101/102, 103/104, 105/106, 107/108, 109/110, 111/112, 113/114, 115/116, 117/118, 119/120, 121/122, 123/124, 125/126, 127/128, 129/130, 131/132, 133/134, 135/136, 137/138, 139/140, 141/142, 143/144, 145/146, 147/148, 149/150, 151/152, 153/154, 155/156, 157/158, 159/160, 161/162, 163/164, 165/166, 167/168, 169/170, 171/172, 173/174, 175/176, 177/178, 179/180, 181/182, 183/184, 185/186, 187/188, 189/190, 191/192, 193/194, 195/196, 197/198, 199/200, 201/202, 203/204, 205/206, 207/208, 209/210, 211/212, 213/214, 215/216, 217/218, 219/220, 221/222, 223/224, 225/226, 227/228, 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