



OPEN SERIES MAP

No. F45C1

Scale 1:50,000

G45T16 (72H/16)	G45U4 (72L/4) GIRDH JHARKHAND	G45U8 (72L/8)
F45B13 (73E/13)	F45C1 (73I/1)	F45C5 (73I/5) Dhanbad JHARKHAND
F45B14 (73E/14)	F45C2 (73I/2)	F45C6 (73I/6)

1 Kodama, JHARKHAND. 2 Deogarh, JHARKHAND. 3 Jamtara, JHARKHAND. 4 Puruliya, 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: Cart-track; Pucc-track with posts; Foot-path	
Streams: with track in bed; undefined; Canal	
Dam: masonry or rock-filled; earthwork; Weir	
River: dry with water channel; with island & rocks; Total river	
Submerged rocks; Shoal; Swamp; Roads	
Wells: lined; unlined; Tube-well; Spring; Tanks; perennial; dry	
Embankments; road or rail; tank; broken ground	
Railways, broad gauge: double; single with station; under constr.	
Railways, other gauges: double; single with distance stone	
Mineral line or tramway; Kin. Cutting with tunnel	
Contours with sub-features. Rocky slopes. Cliffs	
Sand features (Tidal, (Z)land-hills(permanent), (3)dund(sifting))	
Towns or Villages: inhabited; deserted; Fort.	
Habit: permanent; temporary; Tower; Antiquities	
Temple; Chhatra; Church; Mosque; Ghat; Tomb; Graves	
Lighthouse; Buoy; Lighted; unlighted; Anchorage	
Mine: View on ridge; Grass; Stone	
Plants: palm; other; Parasit. Cactus; Bamboo; Other trees	
Areas: cultivated; wooded; Surveyed tree	
Boundary: international	
state; demarcated; undemarcated	
district; subdivision; taluk or B.M.K. forest	
Boundary pillars: surveyed; uncoloured	
Height; triangulation; 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 / Dispensary	
Aerodrome; Helipad; Tourist site	
Power line: with pylons surveyed; with poles unsurveyed	

REFERENCES

MP-2 National Highway No. 2	PWD Public Works Department
S.E.F. South Eastern Railway	SDO Block Development Office
H.S.L.C. Hindustan Steel Limited Calcutta	

NOTES

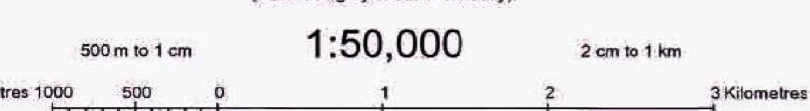
Heights are in metres and above Indian mean sea level.
Contours are approximate.
A relative height, 'R', represents the approximate height, in metres, between the top and bottom of a slope.
Tide-gauges are numerous throughout the sheet, only the important ones have been shown.
Unmetalled roads and cart-tracks in this sheet are generally motorable in dry season.
The triangulated heights and contours in this sheet have not been adjusted to the heights of the spot-levelled bench-marks and may not be strictly in accordance with them.
The kilometre stone numbers along roads and railways are shown in start type, e.g. '5' whereas milestone numbers are shown in upright type, e.g. '15'.

COMPILATION INDEX

A. Surveyed during 1073-74. 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).



CONTOUR INTERVAL 20 METRES

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

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REG. No. POF -SPD 099 (Jharkhand GDC-150,2005)

Printed under the direction of Surveyor General of India, Survey of India, Hathi Barkala Estate, Post Box No.37, Dehra Dun-248001 (Uttarakhand), Department of Science & Technology, Government of India.

PRINTED AT THE SOUTHERN PRINTING GROUP OF SURVEY OF INDIA.

Forest Land

Railway Corridor