

**No. F45H13**  
 Scale 1:50,000

F45B12 (73E/12) Ranchi JHARKHAND	F45B16 (73E/16) Purniya WEST BENGAL	F45C4 (73J/4)
F45H9 (73F/9)	<b>F45H13</b> (73F/13) Seraikela Kharsawan JHARKHAND	F45I1 (73J/1)
F45H10 (73F/10) Pashchim Singhbhum JHARKHAND	F45H14 (73F/14)	F45J2 (73J/2)

1 Mayurbhanj, ORISSA  
 2 Patti Singhbhum, JHARKHAND.

भारतीय सर्वेक्षण विभाग SURVEY OF INDIA  
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**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-trail with pass, Foot-path	
Stream, with track in bed, unlined, Canal	
Dam, masonry or rock-filled, outwash, 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, torn, Broken ground	
Railways, broad gauge, double, single with station, under construction	
Mineral line or tramway, K.M. Cutting with tunnel	
Contours with sub-features, Rocky slopes, C.P.F.	
Spot heights (1st (Ground) measurement) (2nd (Spotting))	
Towns or Villages, inhabited, deserted, Fort	
Hills, permanent, temporary, Tower, Antenna, Gravel, River	
Temples, Church, Mosque, Jain, Tomb, Graves	
Lightness, Uplights, Buoys, lighted, unlighted, Anchorage	
Mine, Vies on tracks, Glass, Spire	
Palm, papaya, other, Plantain, Coffee, Banana, Other trees	
Areas, cultivated, wooded, Sun-dried, tree	
Boundary, international	
State, demarcated, un-demarcated	
District, sub-division, taluk or taluq, forest	
Boundary pillars surveyed, un-surveyed	
Height, triangulation station, point, approximate, 6200, 200, 207	
Benchmark, geodetic, tertiary, canal, BM 63-3, BM 63-2	
Post office, Telegraph office, Overhead tank	
Rail house or inspection bungalow, Guard house, Police station, B.K.	
Camping ground, Forest, reserved, protected, C.P.F. RF PF	
Spaced names, administrative, locality or tribal, KIKRI	
Hospital, Dispensary, Veterinary Hospital, Dispensary, NAGA	
Aerodrome, Helipad, Toured site	
Power line, with pylons surveyed, with poles un-surveyed	

**REFERENCES**  
 NH 27 National Highway No. 23. S.C.R. South Eastern Railway

**NOTES :-**  
 Heights are in metres and above Indian mean sea level.  
 Contours are approximate.  
 Tarns shown are, in this area usually contain water from July to December.  
 Unmetalled roads and cart-tracks in this sheet are generally metalled in dry season.  
 The triangulated heights and contours in this sheet have not been adjusted to the heights of the spirit-levelled benchmarks and may not be in accordance with them.  
 The kilometre stone numbers along roads and railways are shown in small type, e.g., 27 whereas milestone numbers are shown in large type, e.g., 27.  
 The district boundary between Ranchi and Seraikela Kharsawan districts has been surveyed as pointed out by the local officials on the ground but has not been verified by the District authorities.

**COMPILATION INDEX**  
 A Surveyed during 1977-78. Updated for major details from satellite imagery of 2007 during 2008-09.

Projection - UTM Datum - WGS 84  
 Magnetic Variation from True North about 1/2° West in 2005.  
 (Decreasing by about 1" annually)  
 500 m to 1 cm  
 1:50,000  
 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  
 Director  
 Jharkhand Geo-Spatial Data Centre  
 Survey of India, Dorenda  
 Ranchi.

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