

निर्यात के लिए नहीं NOT FOR EXPORT

OPEN SERIES MAP

No. F45S13

Scale 1:50,000

Sambalpur ORISSA	Deogarh ORISSA	F45N4 (73G4)
F45M12 (73C12)	F45M16 (73C16)	
F45S9 (73D9)	F45S13 (73D13) Anugul ORISSA	F45T1 (73H1)
F45S10 (73D10) Bouda ORISSA	F45S14 (73D14)	F45T2 (73H2) Cuttack ORISSA

1 Dhenkanal, ORISSA. 2 Nayagarh, ORISSA.

Sheet No. 8

भारतीय सर्वेक्षण विभाग SURVEY OF INDIA

1st Edition 2009.

PRICE ₹ 94/-

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 and pass. 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. Pier. Mill. Dry  
Embankments: 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. Kin. Cutting with tunnel  
Contours with sub-features. Rocky slopes. Cliffs  
Sand features: (Tilted) (Zigzag-hills) (permanent) (Slopes/shifting)  
Towns or Villages: inhabited; deserted. Fort  
Huts: permanent; temporary. Tower. Antiquities  
Temple. Chhatra. Church. Mosque. Idgah. Tomb. Graves  
Lighthouse. Lightship. Buoys: lighted; unlighted. Anchorage  
Mine. Vine on trellis. Grass. Scrub  
Palms: palmyra; other. Plantain. Conifer. Bamboo. Other trees  
Areas: cultivated; wooded. Surveyed tree  
Boundary, international  
state: demarcated; undemarcated  
district: subdivision, tahsil or taluk; 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 / Dispensary  
Aerodrome. Helipad. Tourist site  
Power line: with pylons surveyed; with poles unsurveyed

Slurry Pipeline Route from Barbil to Angul

REFERENCES  
NH 42 National Highway No. 42. PWD Public Works Department.

NOTES :-  
Heights are in metres and above Indian mean sea level.  
Contours are approximate.  
A relative height, *h*, represents the approximate height, in metres, between the top and bottom of a steep slope.  
The subdivision boundaries in this sheet have been surveyed as pointed out by the local officials on the ground, but have not been verified by the concerned authorities.  
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 January.  
All unmetalled roads, in this sheet, against which there is no descriptive remark, are generally motorable in dry season.  
Hand pump is shown thus

COMPILATION INDEX  
A. Compiled from 1:25,000 survey 1979-80. Updated for major details during 2005-06.

Projection - UTM Datum - WGS 84  
Magnetic Variation from True North about  $3^{\circ}$  West in 2005.  
(Annual change negligible).  
1:50,000  
500 m to 1 cm  
2 cm to 1 km  
CONTOUR INTERVAL 10 METRES  
For further details about this map, please contact  
Director  
Orissa Geo-Spatial Data Centre  
Survey of India  
Survey Bhawan, PO - R R Laboratory  
Bhubaneswar-751013.  
Fax : 0674 - 2301418  
WEBSITE - www.surveyofindia.gov.in

Reproduction in whole or part by any means is prohibited without the written permission of Survey of India, the National Mapping Agency.

GOVERNMENT OF INDIA COPYRIGHT, 2009.

REG. No. 8418-SP D 09 (Orissa GDC:1:50,000)-1015.

भारत के मानचित्रों के निर्माण में प्रयुक्त,  
Published under the direction of Surveyor General of India,  
Survey of India, Hathi Bakala Estate, Post Box No. 37, Dehra Dun-248001 (Uttarakhand),  
Department of Science & Technology, Government of India.

Authorised Signatory  
Anurag Tripathy  
AGM-Slurry Pipeline Project  
Jindal Steel & Power Limited  
Angul Odisha

PRINTED AT THE SOUTHERN PRINTING GROUP OF SURVEY OF INDIA.