



निर्यात के लिए नहीं NOT FOR EXPORT

OPEN SERIES
MAP

No. F45M16

Scale 1:50,000

F45M11 (73C/11)	F45M15 (73C/15)	F45N3 (73G/3)
F45M12 (73C/12)	F45M16 (73C/16)	F45N4 (73G/4)
F45S9 (73D/9)	F45S13 (73D/13)	F45T1 (73H/1)

1 Dhenkanal, ORISSA.

भारतीय सर्वेक्षण विभाग

SURVEY OF INDIA

1st Edition 2011.

PRICE ₹ 118/-

CONVENTIONAL SYMBOLS

Express highway with toll; with bridge; with distance stone		20
Roads, metalled; according to importance		
Roads, double cartriageway; according to importance		
Unmetalled road. Cart-track. Pack-track with pass. Foot-path		
Streamlets with track in bed; underlined. Canal		
Dams: masonry or rock-filled; earthwork. Well		
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 constr.		
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: (1) flat. (2) sand-hills (permanent). (3) dunes (shifting)		
Towns or Villages: inhabited; deserted. Fort		
Huts: permanent; temporary. Tower. Antiquities		
Temple. Chhatra. Church. Mosque. Ghat. Tomb. Graves		
Lighthouse. Lightship. Buoy: lighted; unlighted. Anchorage		
Mine. Vind on walls. Grass. Scrub		
Palm: palmyra; other. Plantain. Conifer. Bamboo. Other trees		
Areas: cultivated; wooded. Surveyed tree		
Boundary, international		
state: demarcated; undemarcated		
district: subdivided; taluk or taluk; forest		
Boundary pillars: surveyed; unlocated		
Heights, triangulated station: point; approximate		
Bench-mark: geodetic; tertiary; canal		
Post office. Telegraph office. Overhead tank		
Rail station or inspection bungalow. Circuit house. Police station		
Camping ground. Forest: reserved; protected		
Camping names: administrative; locally or tribal		
Hospital. Dispensary. Veterinary Hospital / Dispensary		
Aerodrome. Helipad. Tourist site		
Power line: with pylons surveyed; with poles unsurveyed		

REFERENCES

NH 200 National Highway No. 200. 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.
Unmetalled roads and cart-tracks in this sheet are motorable and jeepable in dry season respectively.
The exterior boundaries of areas of Reserved or Protected Forests are shown by green ribbons.
Wells are numerous throughout the sheet; only the important ones have been shown.
Hand Pump is shown thus:

COMPILATION INDEX

A. Compiled from 1:25,000 survey 1985-87. Updated for major details during 2005-06.
सर्वेक्षण प्रमुख/General Manager (Const.)
सर्वेक्षण (भारतीय) ग.म. (इंडिया) लिमिटेड.
610-612, इन्दिरा नगर, पटना-5
610-612, इन्दिरा नगर, पटना-5
फोन-752101, भुवनेश्वर-752101

Projection - UTM Datum - WGS 84

Magnetic Variation from True North about $\frac{3}{4}^{\circ}$ West in 2005.
(Annual change negligible).

1:50,000

Metres 0 500 1 0 2 Kilometres
CONTOUR INTERVAL 20 METRES

For further details about this map, please contact

Director

Orissa Geo-Spatial Data Centre

Survey of India

Survey Bhawan, PO - R R Laboratory

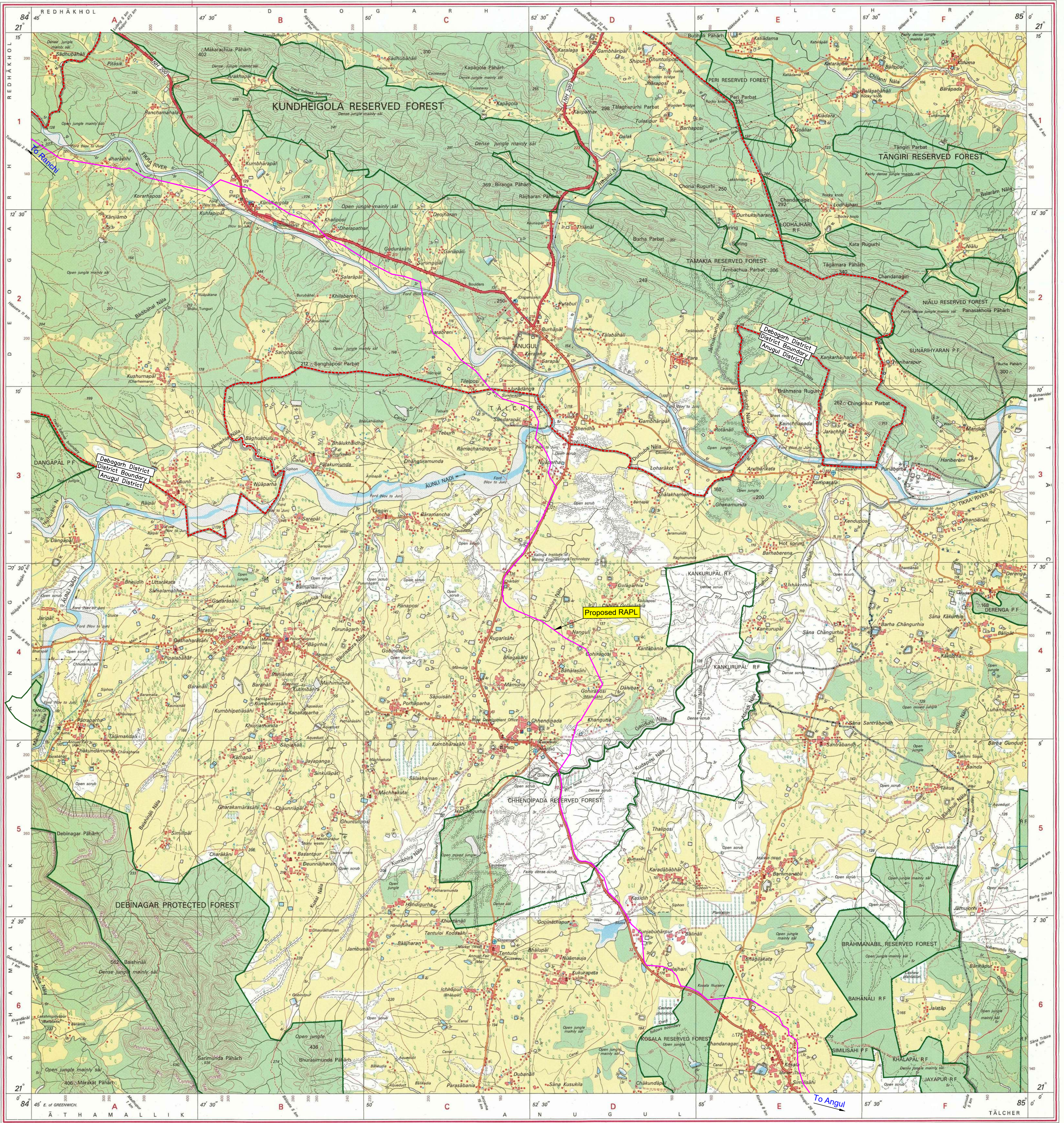
Bhubaneswar - 751013

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, 2011.



REG. No. 0159 - SPG D/11 (Odisha GDC-1:50,000)-1015/15.

भारत के सर्वेक्षण विभाग
Published under the direction of Dr. Swarna Subba Rao, Surveyor General of India,
Survey of India, Hathiabarka Estate, Post Box No. 37, Dehra Dun - 249001 (Uttarakhand),
Department of Science & Technology, Government of India.

PRINTED AT THE SOUTHERN PRINTING GROUP OF SURVEY OF INDIA.



निर्यात के लिए नहीं NOT FOR EXPORT

OPEN SERIES
MAP

No. F45S13

Scale 1:50,000

F45M12 (73C12)	F45M16 (73C16)	F45N4 (73G4)
F45S9 (73D9)	F45S13 (73D13) Anagol ORISSA	F45T1 (73H1)
F45S10 (73D10) Bauda ORISSA	F45S14 (73D14)	F45T2 (73H2) Cuttack ORISSA

1 Dhenkanal, ORISSA. 2 Nayagarh, ORISSA.

73 D
13

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 and pass, foot-path.
- Streams with track in bed, unbridged. Canal.
- Dam, masonry or rock-filled, with bridge. Well.
- River, dry with water channel, with island & rocks. Tidal.
- Submerged rocks, shoal, Swam, Reef.
- Wells: lined, unlined. Tube-well. Spring. Tank; perennial; dry.
- Embankments: road or rail; tank. Broken ground.
- Railways, broad gauge, double, single with distance stone; do.
- Mineral line or tramway. Kite. Cutting with tunnel.
- Contours with spot-heights. Rocky slopes. Cliff.
- Sand features: (1) dune, (2) permanent, (3) dunes/shifting.
- Towns or Villages: inhabited, deserted, Fort.
- Huts: permanent; temporary. Tower, Antiquities.
- Temples, Chhatri, Church, Mosque, Igloo, Tomb, Graves.
- Lighthouse, Lightship, Buoy: lighted, unlighted; Anchorage.
- Moat, Wall, or other, Green.
- Palms: palm; other. Plantain, Conifer, Bamboo, Other trees.
- Areas: cultivated; wooded; Surveyed tree.
- Boundary, international.
- State: demarcated, undemarcated.
- Subsidiary, small or shik; forest.
- Boundary, pillars: surveyed, indicated.
- Height, triangulated station; point approximate.
- Bench-mark, geodetic; tertiary; canal.
- Post office, Telegraph office, District head, Police station.
- Rail house or inspection bungalow; Creek house, Police station.
- Camping ground, Forest, reserved, protected.
- Special names, administrative, locality or tribal.
- Hospital, Dispensary, Veterinary, Hospital, Dispensary.
- Aerodrome, Helipad, Tourist site.
- Power line, with pylons surveyed, with poles unsurveyed.

REFERENCES

AN 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, or, 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 ribbons. Type shown dry, in this area usually contains water from July to January. All unmetalled roads, in this sheet, against which there is no descriptive remark, are generally metalled in dry season. Hand pump is shown thus.

COMPILATION INDEX

A. Compiled from 1:25,000 survey 1979-80, updated for major details during 2008-09.

गोदाधर कंधापानी
मुख्य प्रबंधक (निर्माण)
गैल इंडिया लिमिटेड
भुवनेश्वर
G. KANDHAPANI
Chief Manager (Const.)
GAIL (India) Ltd.
Bhubaneswar

Projection - UTM Datum - WGS 84

Magnetic Variation from True North about 3° West in 2005. (Annual change negligible).

1:50,000

500 m to 1 km 2 4 to 1 km 3 Kilometres

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

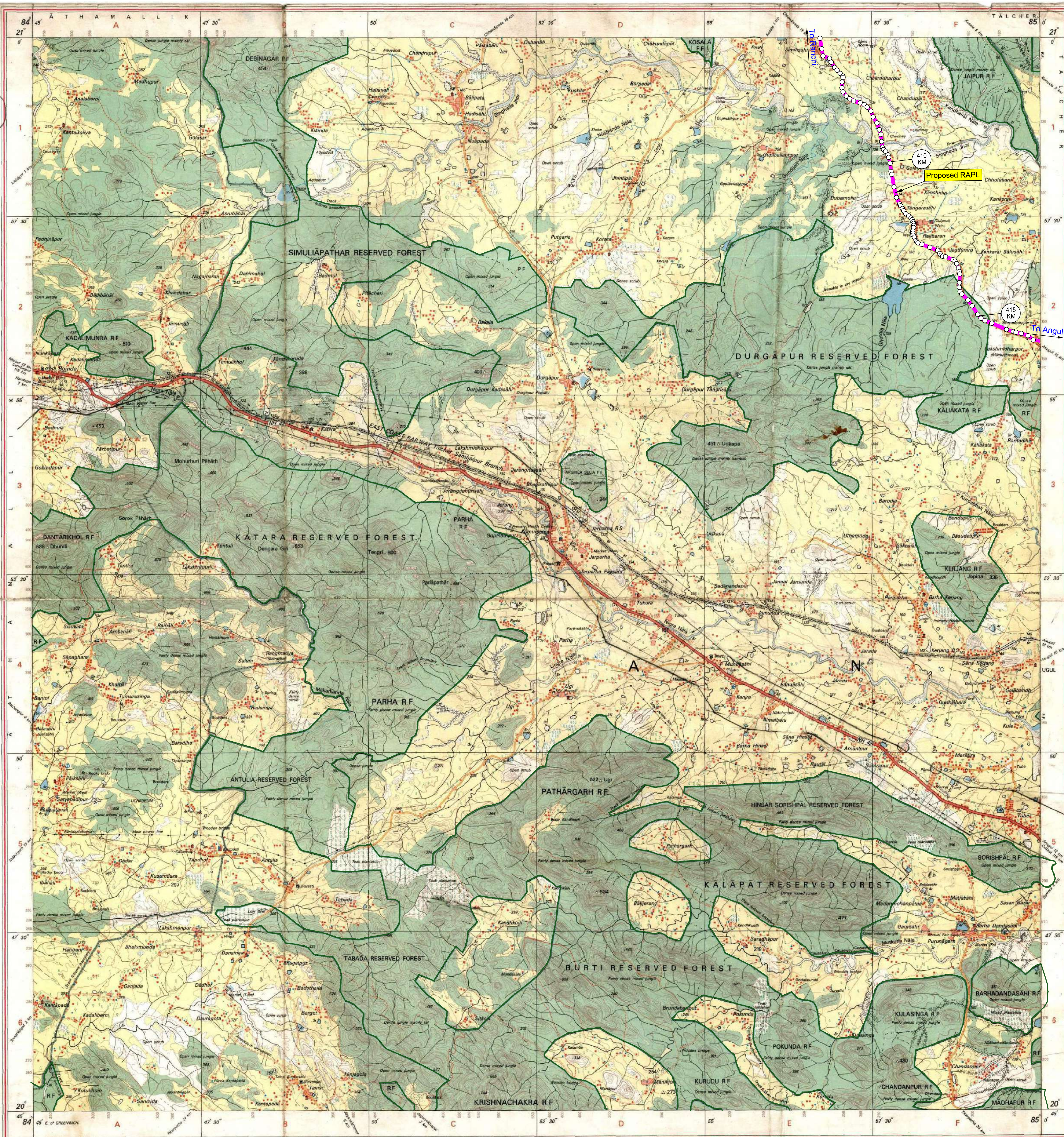
Bhubaneswar-751013.

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-SPC D-09 (Orissa GDC-130,000-1015).

यह नक्शा सर्वेक्षण विभाग द्वारा तैयार किया गया है।
Published under the direction of Surveyor General of India.
Survey of India, Hathiakhata 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.

