

No. F45N4

Scale 1:50,000

F45M15 (73C/15) Deogarh ORISSA	F45N3 (73G/3)	F45N7 (73G/7) Kendujhar ORISSA
F45M16 (73C/16)	F45N4 (73G/4) Anugul ORISSA	F45N8 (73G/8)
F45S13 (73D/13)	F45T1 (73H/1)	F45T5 (73H/5) Dhenkanāl ORISSA

1 Sambalpur, ORISSA.

Sheet No. 6

भारतीय सर्वेक्षण विभाग SURVEY OF INDIA

1st Edition 2009.

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 pass. Foot-path

Streams: with track in bed; undefined. Canal

Dams: masonry or rock-filled; earthenwork. 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 construction

Railways, other gauges: double; single with distance stone; do.

Mineral line or tramway. Kiln. Cutting with tunnel

Contours with sub-features. Rocky slopes. Cliffs

Sand features: (T) flat, (2) sand-hills (permanent), (3) dunes/shifting

Towns or Villages: inhabited; deserted. Fort

Huts: permanent; temporary. Tower. Antiquities

Temple. Chhatra. Church. Mosque. Igah. 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; taluk 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

Spatial 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

REFERENCE

NH 22 National Highway No. 23.

NOTES

Heights are in metres and above Indian mean sea level.

Contours are approximate.

A relative height, *h_r*, represents the approximate height, in metres, between the top and bottom of a steep slope.

The administrative boundaries in this sheet have been surveyed as pointed out by the local officials on the ground, but have not been verified by the authorities concerned.

The reserved forest boundaries in this sheet have been surveyed as pointed out by the local forest officials on the ground, but have not been verified by the Divisional Forest Officer concerned.

The triangulated heights and contours in this sheet have not been adjusted to the heights of the spirit-levelled benchmarks and may not be strictly in accordance with them.

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.

Hand Pump is shown thus:

COMPILED INDEX

A. Compiled from 1:25,000 survey 1978-78. Updated for major details during 2005-06.

Projection - UTM Datum - WGS 84

Magnetic Variation from True North about 4° West in 2005. (Annual change negligible).

1:50,000

500 m to 1 cm

2 cm to 1 km

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

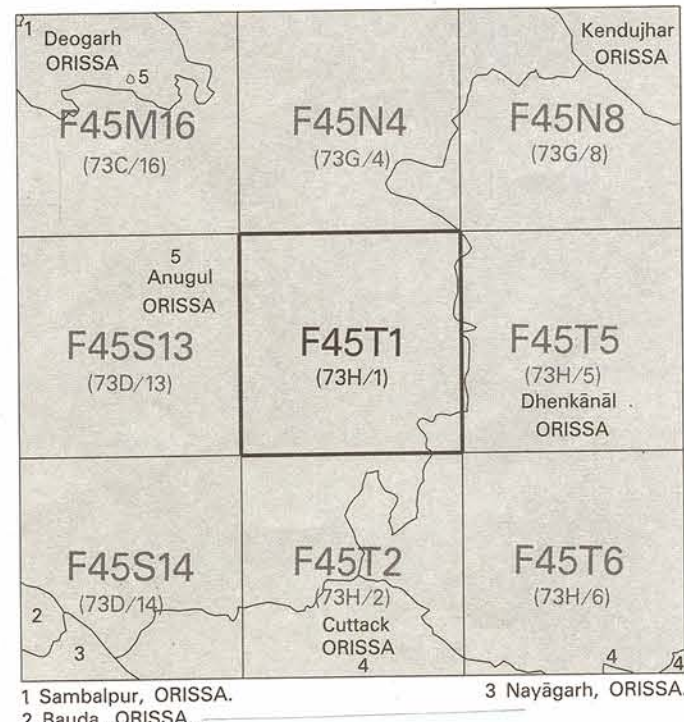
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No. F45T1

Scale 1:50,000



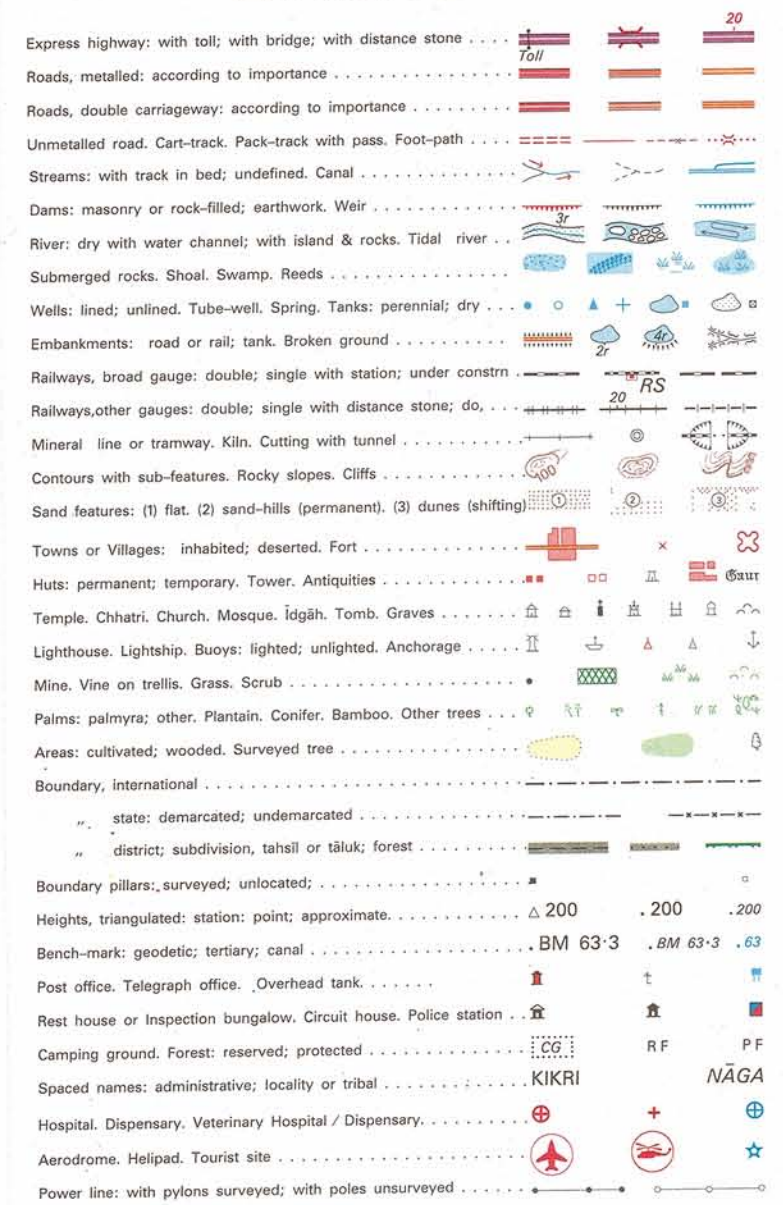
Sheet No. 7

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1st Edition 2010.

PRICE ₹ 118/-

CONVENTIONAL SYMBOLS



Slurry Pipeline Route from Barbil to Angul

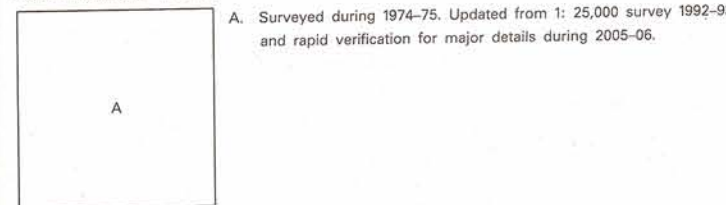
REFERENCES

NH 42 National Highway No. 42. City Chimney. FCI Food Corporation of India. NALCO National Aluminium Company.

NOTES :-

Heights are in metres and above Indian mean sea level. Contours are approximate. Important buildings are shown in black with names. A relative height Δ represents the approximate height in metres, between the top & bottom of a steep slope. The district boundary between Angul & Deogarh Districts has been surveyed as pointed out by the local officials on the ground, but has not been verified by the District authorities. The exterior boundaries of areas of Reserved or Protected Forests are shown by green ribbons. 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 common boundary between PATURIA R.F. & PETACHIRA R.F. in square E/1 & F/1 has not been shown for want of reliable information. Hand Pump is shown thus.

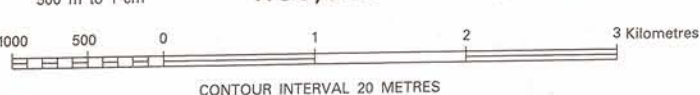
COMPILATION INDEX



Projection - UTM Datum - WGS 84

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

1:50,000



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

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REG. No. 9168-SPG D/10 (Orissa GDC:1:50,000-1015 '11).

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

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निर्यात के लिए नहीं
NOT FOR EXPORT

OPEN SERIES
MAP

No. F45S13

Scale 1:50,000

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

1 Dhenkanal, ORISSA. 2 Nayagarh, ORISSA.

Sheet No. 8

भारतीय सर्वेक्षण विभाग
1st Edition 2009.

SURVEY OF INDIA
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 gauge: 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. Chhatri. 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° 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
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Survey Bhawan, PO - R R Laboratory
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AGM-Slurry Pipeline Project
Jindal Steel & Power Limited
Angul Odisha

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