

No. F45N6

Scale 1:50,000

F45N1 (73G/1) Sundargarh ORISSA	F45N5 (73G/5) Kendujhar ORISSA	F45N9 (73G/9)
F45N2 (73G/2) Deogarh ORISSA	F45N6 (73G/6) Kendujhar ORISSA	F45N10 (73G/10)
F45N3 (73G/3) Anugul ORISSA	F45N7 (73G/7)	F45N11 (73G/11)

PLATE-I-D

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 tank in bed, underlined, canal	...
Dams: masonry or rock-filled, earthen, weir	...
River: dry with water channel with island & rocks, tidal river	...
Submerged rocks, shoal, swamp, reeds	...
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	...
Railways, other gauges: double, single with distance stone: do	...
Mineral line or tramway, K.M. cutting with tunnel	...
Contours with sub-features: Rocky slopes, cliffs	...
Sand features: (dune, dune-like permanent), (dune-like, shifting)	...
Towns or villages: inhabited, deserted, fort	...
Huts: permanent, temporary, tower, antiquities	...
Temples, Chhatris, Churches, Mosques, Idgahs, Tomb, Graves	...
Lighthouse, Lightships, Buoys: lighted, unlighted, Anchorage	...
Mine: vein on trestle, Grass, Scrub	...
Palm: palmyra, other, Plantain, Coriander, Bamboo, Other trees	...
Arrears: cultivated, wooded, Surveyed tree	...
Boundary: international	...
State: demarcated, undemarcated	...
Chiefly: sub-division, tahsil or block, lowest	...
Boundary pillars: surveyed, unlocated	...
Height, triangulation station, police, 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	...
Speed 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 5 National Highway No. 5.

NOTES :-

Heights are in metres and above Indian mean sea level.
Contours are approximate.
The triangulated heights and contours, in this sheet, have not been adjusted to the heights of the
geoid-derived bench-marks, and may not be strictly in accordance with them.
Unmetalled roads, in this sheet, are generally unsuitable in dry season.
Recent buildings are shown in black.
Land Pump is shown thus: [Symbol]

COMPILED INDEX



Projection - UTM Datum - WGS 84

Magnetic Variation from True North about 1/2° West in 2005.
(Annual change negligible).

1:50,000



For further details about this map, please contact

Director

Orissa Geo-Spatial Data Centre

Survey of India

Survey Bhawan, I.P.O. - R.R. Laboratory

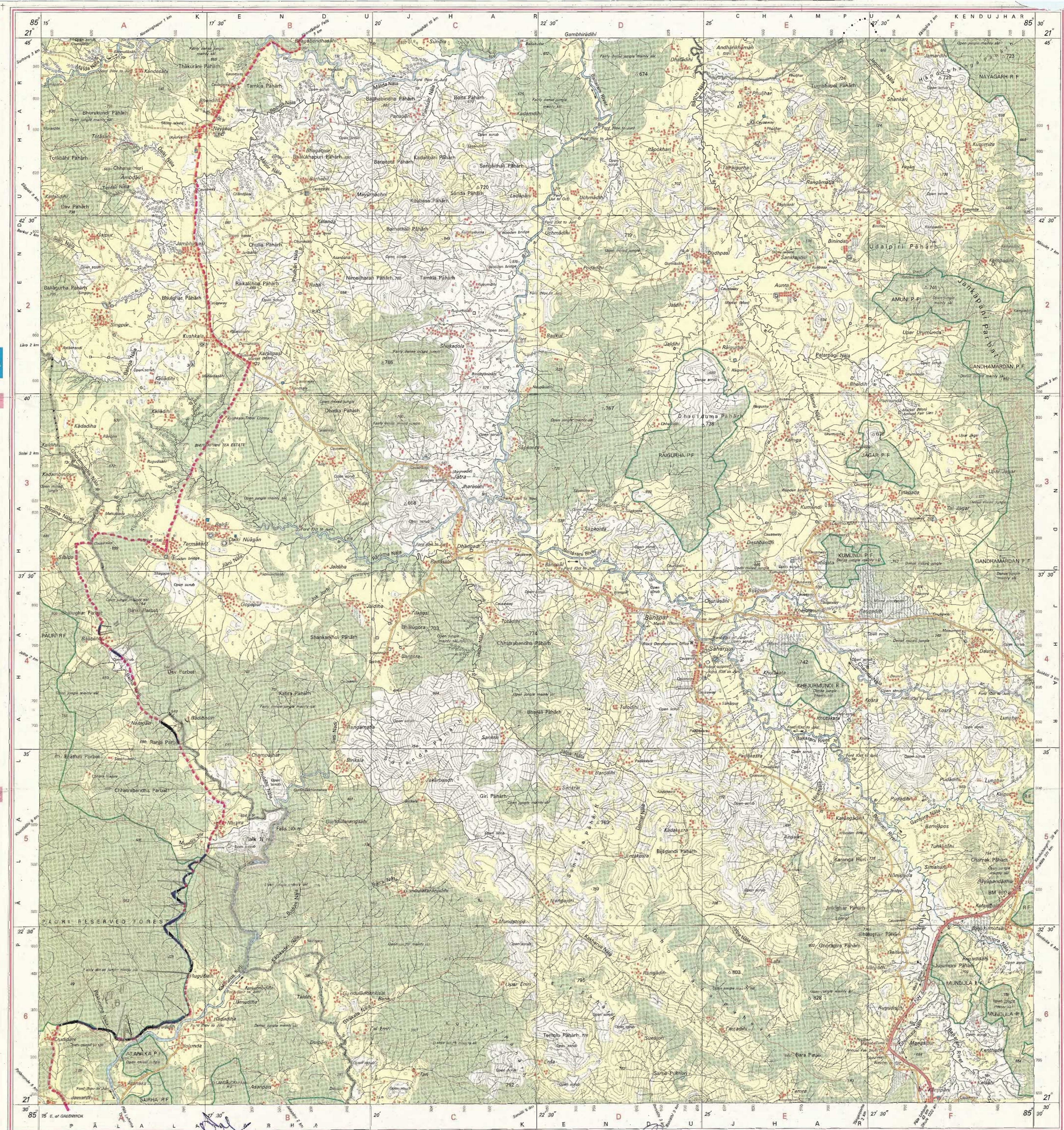
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REG. No. B416-SPG D/19 (Orissa GSDC-I50,000-1)15.

Authorised Signatory
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Pailahara Range

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No. F45N7
Scale 1:50,000

Sundargarh ORISSA F45N2 (73G2)	F45N6 (73G6)	F45N10 (73G10)
Deogarh ORISSA 1		Kendujhar ORISSA F45N11 (73G11)
F45N3 (73G3) Angul ORISSA	F45N7 (73G7)	
F45N4 (73G4)	F45N8 (73G8) Dhenkanal ORISSA	F45N12 (73G12)

2 Jajpur, ORISSA.

PLATE-I-E

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. Path-track and pass. Foot-path
Streams: with track in bed; underlined. Canal
Dams: masonry or rock-filled; earthwork. Weir
River: dry with water channel; with island & rocks. Tidal river
Silt-merged rocks. Shoal. Swamp. Reeds
Walls: lined, unlined. Tube-well. Spring. Tanks: perennial, dry
Embarkments: 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: (1) flat (2) sand-hills (3) permanent (4) seasonal (5) shifting
Towns or Villages: inhabited, deserted, Fort
Huts: permanent; temporary. Tower. Antiquities
Temple. Chhatra. Church. Mosque. Jagah. Tomb. Graves
Lighthouses. Lightships. Boys; lighted; unlighted. Anchorage
Mine. Vine on trellis. Grass. Scrub
Palm: palmyra; other. Plantain. Coffee. 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
Special 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 6 National Highway No. 6

NOTES

Heights are in metres and above Indian mean sea level.
Contours are approximate.
A relative height, Δ , represents the approximate height, in metres, between the top and bottom of a steep slope.
Jhim or temporarily cultivated upland occur throughout the jungle; they are normally abandoned after 2-3 years and are not shown.
All unmetalled roads are generally not shown in dry season.
The triangulated heights and contours in this sheet have not been adjusted to the spirit-levelled bench-marks and may not be strictly in accordance with them.
The exterior boundaries of areas of Reserved or Protected Forests are shown by green bands.
Hand Pump is shown thus

COMPILATION INDEX

A. Compiled from 1:25,000 survey 1980-81. Updated for major details during 2005-06.

Projection - UTM Datum - WGS 84

Magnetic Variation from True North about $\frac{1}{2}$ 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

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Orissa Geo-Spatial Data Centre

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REG. No. 8234-SPG D 09 (Orissa GDC-1:50,000)-015.

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Angul Odisha

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Department of Science & Technology, Government of India.

Forest Range Officer
Pallahara Range

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No. F45N3

Scale 1:50,000

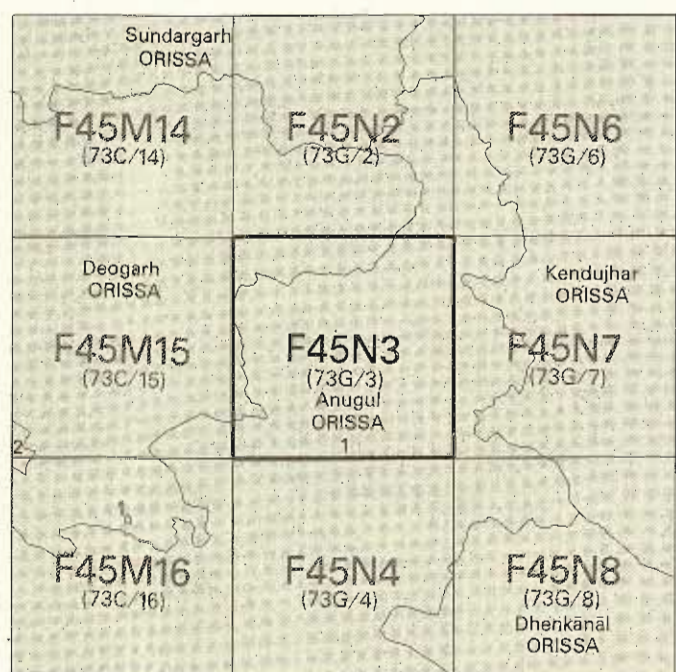


PLATE-I-F

भारतीय सर्वेक्षण विभाग SURVEY OF INDIA

1st Edition 2009.

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CONVENTIONAL SYMBOLS



Slurry Pipeline Route
from Barbil to Angul

REFERENCE

NH 5 National Highway No. 6.

NOTES

Heights are in metres and above Indian mean sea level.
Contours are approximate.
A relative height, Δ , represents the approximate height in metres between the top and bottom of a steep slope.
Important buildings are shown in black with names.
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 interrupted height and contour in this sheet have not been adjusted to the heights of the spirit-levelled bench-marks and may not be strictly in accordance with them.
Travel Pump is shown thus.

COMPILATION INDEX

A. Compiled from 1:25,000 survey 1977-78. Updated for major details during 2005-06.

Projection - UTM Datum - WGS 84

Magnetic Variation from True North about 1° West in 2005.
(Annual change negligible).

Scale 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
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Department of Science & Technology, Government of India.

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

Forest Range Office
KHAMAR RANGI

Forest Range Office
Pallahara Range

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No. F45N4

Scale 1:50,000

F45M15 (73C/15) Deogarh ORISSA	F45N3 (73G/3) Deogarh ORISSA	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)

1 Sambalpur, ORISSA.

PLATE-I-G

भारतीय सर्वेक्षण विभाग SURVEY OF INDIA

1st Edition 2009.

PROJ. 1118

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; undammed. 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. Tanks; perennial; dry	...
Embankment; road or rail; weak. Broken ground	...
Railways, broad gauge; double; single with station; under constr.	...
Railways, other gauges; double; single with distance stone; do.	...
Mineral line or tramway. Kils. Cutting with tunnel	...
Contours with sub-features. Rocky slopes. Cliffs	...
Sand features: (1)flat. (2)sand-hills (permanent). (3)dunes(stabilising).	...
Towns or Villages: inhabited; deserted. Fort	...
Huts: permanent; temporary. Tower. Antiquities	...
Temple. Chhatri. Church. Mosque. Igah. Tomb. Graves	...
Lighthouse. Lightship. Buoys; lighted; unlighted. Anchorage	...
Mine. Vine on trellis. Grass. Scrub	...
Palm; palm; other. Plantain. Conifer. Bamboo. Other trees	...
Areas: cultivated; wooded. Surveyed tree	...
Boundary, international	...
state; demarcated; undemarcated	...
district; subdivision; taluk or tehsil; 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

REFERENCE
NH 23 National Highway No. 23.

NOTES

Heights are in metres and above Indian mean sea level.
Contours are approximate.
A relative height, Δ , 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 bench-marks 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:

COMPILATION INDEX

A. Compiled from 1:25,000 survey 1976-78. Updated for major details during 2005-08.

Projection - UTM Datum - WGS 84

Magnetic Variation from True North about $\frac{1}{2}^{\circ}$ 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
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