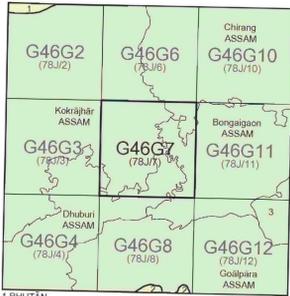


SOI TOPOSHEET SHOWING THE FOREST AREA PROPOSED TO BE DIVERTED FOR 400 KV DC TRANSMISSION LINE FROM BONGAIGAN S/S TO NANGALBIBRA S/S UNDER AIE-VALLEY FOREST DIVISION (SCALE:-1:50,000)



OPEN SERIES MAP

No. G46G7
Scale 1:50,000



1 BHUTAN
2 West Cera Hills, MEGHALAYA
3 Barpeta ASSAM

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1st Edition 2010. Price : Rs. 50/-

CONVENTIONAL SYMBOLS



REFERENCES

NH-37 National Highway No. 37
WB Wooden bridge
BB Bamboo bridge

NOTES

Heights and contours have not been shown.
Contours are shown throughout the sheet, only the important ones have been shown.
The area adjacent to the strip along the river is liable to change owing to siltation in the course of river.
All unmetalled roads are generally motorable in dry season permission to use these roads are required from the local authority.
Nagholes shown in this sheet are commonly worshipped places.
Distances between points are shown in feet.

COMPILATION INDEX



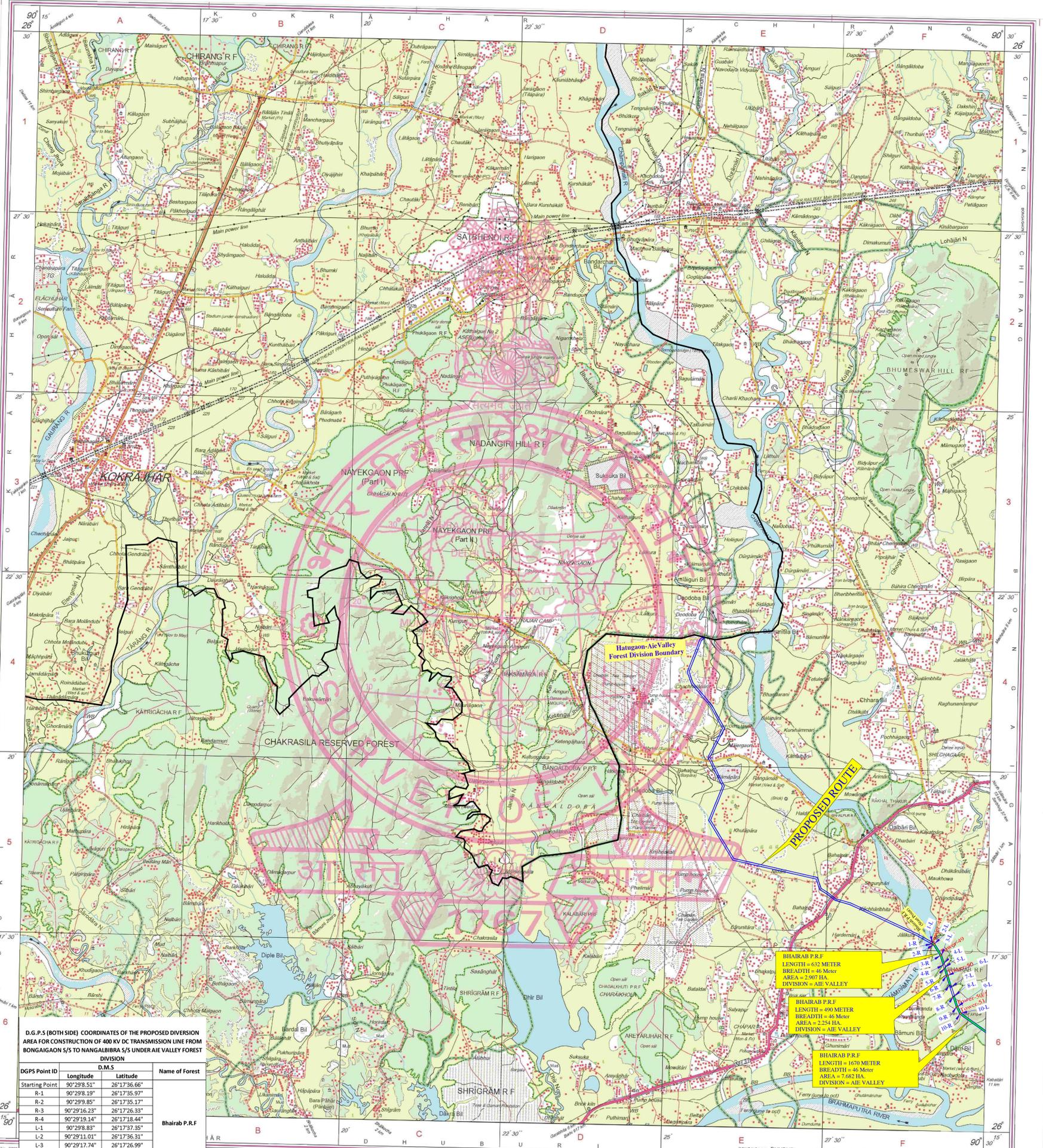
Projection - UTM Datum - WGS 84
Magnetic Variation from True North about 1° West in 2005.
(Annual change negligible)



For further details about this map, please contact
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Assam & Nagaland Geo-Spatial Data Centre
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D.G.P.S (BOTH SIDE) COORDINATES OF THE PROPOSED DIVERSION AREA FOR CONSTRUCTION OF 400 KV DC TRANSMISSION LINE FROM BONGAIGAN S/S TO NANGALBIBRA S/S UNDER AIE VALLEY FOREST DIVISION

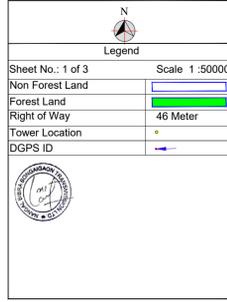
DGPS Point ID	D.M.S	Name of Forest
Starting Point	Longitude Latitude	
R-1	90°29'19.19" 26°17'35.97"	Bhairab P.R.F
R-2	90°29'19.85" 26°17'35.17"	
R-3	90°29'16.23" 26°17'26.33"	
R-4	90°29'19.14" 26°17'18.44"	
L-1	90°29'18.85" 26°17'37.35"	Bhairab P.R.F
L-2	90°29'11.01" 26°17'36.25"	
L-3	90°29'17.74" 26°17'26.99"	
L-4	90°29'20.25" 26°17'20.17"	
Ending Point	90°29'19.69" 26°17'19.3"	Bhairab P.R.F
Starting Point	90°29'20.85" 26°17'16.16"	
R-5	90°29'20.24" 26°17'15.45"	
R-6	90°29'22.39" 26°17'9.6"	
R-7	90°29'25.3" 26°17'1.89"	Bhairab P.R.F
L-5	90°29'21.46" 26°17'16.88"	
L-6	90°29'23.96" 26°17'10.08"	
L-7	90°29'27.54" 26°17'0.58"	
Ending Point	90°29'26.21" 26°17'1.7"	Bhairab P.R.F
Starting Point	90°29'28.68" 26°16'52.56"	
R-8	90°29'28.99" 26°16'52.07"	
R-9	90°29'32.15" 26°16'43.68"	
R-10	90°29'35.66" 26°16'37.86"	Bhairab P.R.F
R-11	90°30'1.37" 26°16'22.01"	
R-12	90°30'11.5" 26°16'15.77"	
L-8	90°29'30.37" 26°16'53.04"	
L-9	90°29'33.67" 26°16'44.28"	Bhairab P.R.F
L-10	90°29'36.92" 26°16'38.89"	
L-11	90°30'2.3" 26°16'23.25"	
L-12	90°30'12.15" 26°16'17.18"	
Ending Point	90°30'11.83" 26°16'16.47"	Bhairab P.R.F
Starting Point	90°30'17.99" 26°16'12.68"	
R-13	90°30'17.55" 26°16'12.05"	
R-14	90°30'29.86" 26°16'4.46"	
R-15	90°30'50.6" 26°15'51.68"	Bhairab P.R.F
R-16	90°30'57.99" 26°15'47.12"	
L-13	90°30'18.43" 26°16'13.31"	
L-14	90°30'30.79" 26°16'5.69"	
L-15	90°30'51.53" 26°15'52.91"	Bhairab P.R.F
L-16	90°31'0.1" 26°15'47.62"	
Ending Point	90°30'59.04" 26°15'47.37"	

Distance between Towers and DGPS Coordinates of Entry-Exit & Center Point of Tower Location

Name of Segment	S. No.	Towers No.	Span (Mtr.)	DGPS Co-ordinates Longitude Latitude
1	Entry	48	60.45	90°29'8.51" 26°17'36.66"
		49	333.43	90°29'10.43" 26°17'36.74"
2	Tower-48	48	60.45	90°29'8.51" 26°17'36.66"
		49	333.43	90°29'10.43" 26°17'36.74"
3	Exit	48	60.45	90°29'8.51" 26°17'36.66"
		49	333.43	90°29'10.43" 26°17'36.74"
4	Exit	48	60.45	90°29'8.51" 26°17'36.66"
		49	333.43	90°29'10.43" 26°17'36.74"
5	Entry	48	60.45	90°29'8.51" 26°17'36.66"
		49	333.43	90°29'10.43" 26°17'36.74"
6	Tower-50	48	60.45	90°29'8.51" 26°17'36.66"
		49	333.43	90°29'10.43" 26°17'36.74"
7	Exit	48	60.45	90°29'8.51" 26°17'36.66"
		49	333.43	90°29'10.43" 26°17'36.74"
8	Entry	48	60.45	90°29'8.51" 26°17'36.66"
		49	333.43	90°29'10.43" 26°17'36.74"
9	Tower-50/1	48	60.45	90°29'8.51" 26°17'36.66"
		49	333.43	90°29'10.43" 26°17'36.74"
10	Tower-51	48	60.45	90°29'8.51" 26°17'36.66"
		49	333.43	90°29'10.43" 26°17'36.74"
11	Tower-51/1	48	60.45	90°29'8.51" 26°17'36.66"
		49	333.43	90°29'10.43" 26°17'36.74"
12	Exit	48	60.45	90°29'8.51" 26°17'36.66"
		49	333.43	90°29'10.43" 26°17'36.74"
13	Entry	48	60.45	90°29'8.51" 26°17'36.66"
		49	333.43	90°29'10.43" 26°17'36.74"
14	Tower-51/2	48	60.45	90°29'8.51" 26°17'36.66"
		49	333.43	90°29'10.43" 26°17'36.74"
15	Tower-51/3	48	60.45	90°29'8.51" 26°17'36.66"
		49	333.43	90°29'10.43" 26°17'36.74"
16	Exit	48	60.45	90°29'8.51" 26°17'36.66"
		49	333.43	90°29'10.43" 26°17'36.74"

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Department of Science & Technology, Government of India.

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Sheet No. 1 of 3
Scale 1:50,000



SOI TOPOSHEET SHOWING THE FOREST AREA PROPOSED TO BE DIVERTED FOR 400 KV DC TRANSMISSION LINE FROM BONGAIGAON S/S TO NANGALBIBRA S/S UNDER AIE-VALLEY FOREST DIVISION (SCALE:-1:50,000)


OPEN SERIES MAP
No. G46G11
 Scale 1:50,000

G46G6 (78J/6)	G46G10 (78J/10)	G46G14 (78J/14)
G46G7 (78J/7)	G46G11 (78J/11) Bongaigaon ASSAM	G46G15 (78J/15) Berpeta ASSAM
G46G8 (78J/8)	G46G12 (78J/12) Golapara ASSAM	G46G16 (78J/16)

1 Barpeta, ASSAM
 2 Katingi (Rupa), ASSAM
 3 West Garo Hills, MEGHALAYA
 4 East Garo Hills, MEGHALAYA

भारतीय सर्वेक्षण विभाग
SURVEY OF INDIA
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CONVENTIONAL SYMBOLS

Express highway with toll, with bridge, with distance stone	
Road, metalled according to importance	
Road, double carriageway according to importance	
Unmetalled road, Cart-track, Pack-track with pass, Foot-path	
Streams with track in bed, unfordable, Canal	
Dam, masonry or rock-fill, with lock, Weir	
River, dry with water channel, with island & rocks, Tide mark	
Shaded rocks, Shos, Swamp, Reeds	
Wells: lined, unlined, Tube-well, Spring, Tank, perennial, dry	
Embankment, road or rail, bank, Broken ground	
Railways, broad gauge, double, single with station, under construction	
Metalled line or railway, K.K. Cutting with bridge	
Contours with sub-intervals, Rocky slopes, Cliff	
Bound features (1:10000) (2:5000) (3:2500) (4:1250) (5:625)	
Towns or Villages: inhabited, deserted, Fort	
Hut: permanent, temporary, Tower, Antenna, Mast	
Temple, Chhatra, Church, Mosque, Ghat, Tomb, Grave	
Lighthouse, Lightship, Buoy: lighted, unlighted, Aeronautical	
Mine: vein on hill, Grass, Scarab	
Pine: palmyra, other, Plantain, Cashew, Bamboo, Other trees	
Areas: cultivated, wooded, Surveyed tree	
Boundary, international	
State demarcated, undemarcated	
Water: sub-surface, spring or well, forest	
Boundary: official, surveyed, un-surveyed	
Height: triangulated station, point, approximate	
Survey mark: geodetic, levelling, canal	
Post office, Telegraph office, Checkered tank	
Rail house or inspection bungalow, Civil house, Police station	
Camping ground, Forest reserved, protected	
Speed name: administrative, locality or tribal	
Hospital, Dispensary, Veterinary, Hospital, Dispensary	
Airplane, Helipad, Tourist site	
Power line with pylons, surveyed, with poles un-surveyed	

REFERENCES
 2011 Demarcation of State Boundaries
 2011 National Highway No. 31

NOTES
 Heights and contours have not been shown.
 Unmetalled roads and footpaths in this sheet are generally metalled in dry season.
 The major public embankments in this sheet, on which roads have not been shown, can also be used for public transport. Permission to use vehicles along these embankments is required from the concerned road Development Branch (RDC) authorities.
 The area adjoining the Mesta River is liable to change owing to continual fluctuation in the course of the river.
 Allotment shown in this sheet are community allotment places.
 District trees are shown thus:

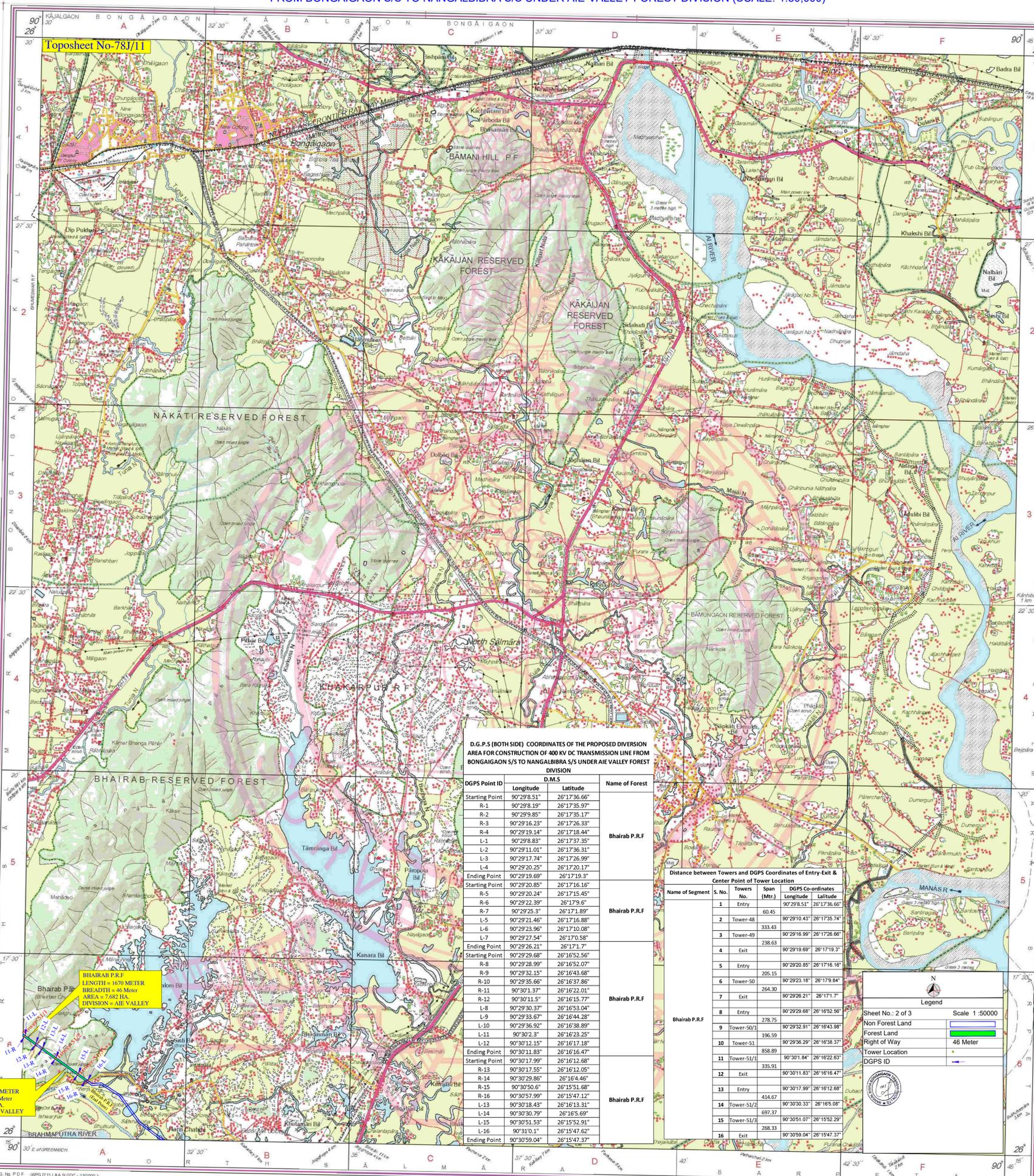
COMPILED INDEX
 A. Surveyed during 1954-59. Updated for major details during 2004-09.

Projection - UTM Datum - WGS 84
 Magnetic Variation from True North about 1/2° West in 2005. (Annual change negligible).
 Scale 1:50,000
 500 m to 1 cm
 500 0 500 1 2 Kilometres

For further details about this map, please contact:
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 Survey of India, Ganeshtungi Chariali, Dispur
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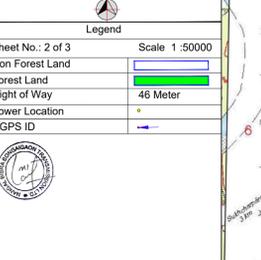
D.G.P.S (BOTH SIDE) COORDINATES OF THE PROPOSED DIVERSION AREA FOR CONSTRUCTION OF 400 KV DC TRANSMISSION LINE FROM BONGAIGAON S/S TO NANGALBIBRA S/S UNDER AIE VALLEY FOREST DIVISION

DGPS Point ID	Longitude	Latitude	Name of Forest
Starting Point	90°29'8.51"	26°17'36.66"	
R-1	90°29'8.19"	26°17'35.97"	
R-2	90°29'8.85"	26°17'35.17"	
R-3	90°29'16.23"	26°17'36.33"	
R-4	90°29'19.14"	26°17'18.44"	
L-1	90°29'8.83"	26°17'37.35"	Bhairab P.R.F
L-2	90°29'11.01"	26°17'36.31"	
L-3	90°29'17.74"	26°17'26.99"	
L-4	90°29'20.25"	26°17'20.17"	
Ending Point	90°29'19.69"	26°17'19.3"	
Starting Point	90°29'20.85"	26°17'16.16"	
R-5	90°29'20.24"	26°17'15.45"	
R-6	90°29'22.99"	26°17'9.6"	
R-7	90°29'23.3"	26°17'1.89"	
L-5	90°29'21.46"	26°17'16.88"	Bhairab P.R.F
L-6	90°29'23.96"	26°17'10.08"	
L-7	90°29'27.54"	26°17'0.58"	
Ending Point	90°29'26.21"	26°17'1.7"	
Starting Point	90°29'29.68"	26°16'52.56"	
R-8	90°29'28.99"	26°16'52.07"	
R-9	90°29'32.15"	26°16'43.68"	
R-10	90°29'35.66"	26°16'37.86"	
R-11	90°30'1.37"	26°16'22.01"	Bhairab P.R.F
R-12	90°30'11.5"	26°16'15.77"	
L-8	90°29'30.37"	26°16'53.04"	
L-9	90°29'33.67"	26°16'44.28"	
L-10	90°29'36.92"	26°16'38.89"	
L-11	90°30'12.15"	26°16'23.25"	
L-12	90°30'12.15"	26°16'17.18"	
Ending Point	90°30'11.83"	26°16'16.47"	
Starting Point	90°30'17.99"	26°16'12.68"	
R-13	90°30'17.55"	26°16'12.05"	
R-14	90°30'29.86"	26°16'4.46"	
R-15	90°30'50.6"	26°15'51.88"	Bhairab P.R.F
R-16	90°30'51.99"	26°15'47.12"	
L-13	90°30'18.43"	26°16'13.21"	
L-14	90°30'30.79"	26°16'5.69"	
L-15	90°30'51.53"	26°15'52.91"	
L-16	90°31'0.1"	26°15'47.62"	
Ending Point	90°30'59.04"	26°15'47.37"	

Distance between Towers and DGPS Coordinates of Entry-Exit & Center Point of Tower Location

Name of Segment	S. No.	Towers No.	Span (Mtr.)	DGPS Co-ordinates Longitude	DGPS Co-ordinates Latitude
1	Entry		60.45	90°29'8.51"	26°17'36.66"
	Exit				
2	Tower-48	333.43	60.45	90°29'10.43"	26°17'35.74"
	Exit				
3	Tower-49	238.63	60.45	90°29'16.99"	26°17'26.66"
	Exit				
4	Entry		205.15	90°29'19.69"	26°17'19.3"
	Exit				
5	Tower-50	264.30	205.15	90°29'23.18"	26°17'19.3"
	Exit				
6	Entry		278.75	90°29'26.21"	26°17'1.7"
	Exit				
7	Tower-50/1	196.59	278.75	90°29'26.21"	26°16'52.56"
	Exit				
8	Tower-51	858.89	196.59	90°29'32.91"	26°16'43.98"
	Exit				
9	Tower-51/1	325.91	858.89	90°29'36.29"	26°16'38.37"
	Exit				
10	Entry		414.67	90°30'1.37"	26°16'22.01"
	Exit				
11	Tower-51/2	697.37	414.67	90°30'30.79"	26°16'5.69"
	Exit				
12	Entry		288.33	90°30'51.53"	26°15'52.91"
	Exit				
13	Entry		288.33	90°30'59.04"	26°15'47.37"
	Exit				

Sheet No. 2 of 3
 Scale 1:50,000
 Non Forest Land
 Forest Land
 Right of Way
 Tower Location
 DGPS ID



SOI TOPOSHEET SHOWING THE FOREST AREA PROPOSED TO BE DIVERTED FOR 400 KV DC TRANSMISSION LINE FROM BONGAIGON S/S TO NANGALBIBRA S/S UNDER AIE-VALLEY FOREST DIVISION (SCALE:-1:50,000)



OPEN SERIES MAP

No. G46G12
Scale 1:50,000

Kokrajhar ASSAM G46G7 (78J/7)	Bongaigaon ASSAM G46G11 (78J/11)	G46G15 (78J/15)
Dibrugarh ASSAM G46G8 (78J/8)	G46G12 (78J/12)	Barpeta ASSAM G46G16 (78J/16)
West Garo hills MEGHALAYA G46M5 (78K/5)	G46M9 (78K/9)	G46M13 (78K/13)

1 Chiring, ASSAM. 4 Kamrup (Rural), ASSAM. 5 West Khasi Hills, MEGHALAYA.
2 Bāra, ASSAM. 3 Barpeta, ASSAM.

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-track with pass. Foot-path	
Stream, with track in bed, underdrain. Canal	
Dam: masonry or rock-fill, earthwork. Weir	
River, dry with water channel, with stand & node. Tidal river	
Submerged pipe. Sewer. Stand. Riser. Tunnel. Trench. Drain	
White line, unlit. Tube well. Spring. Tank. Reservoir. Dry	
Embankment. Road or rail. Sink. Broken ground	
Railway, broad gauge, double, single with station, under construction	
Railway, other gauge, double, single with distance stone, signal	
Messia line or tramway. Kin. Cutting with tunnel	
Contours with elevation. Rocky slopes. Cliffs	
Land features (1:50,000). (2:50,000)	
Towns or Villages inhabited, deserted. Fort	
Hut, permanent, temporary. Tower. Antiquities	
Temples. Church. Mosque. Ghat. Tomb. Deula	
Lighthouse. Lightship. Buoy. Lighted, unlighted. Andrograph	
Mine. Wre or hole. Ore. Shaft	
Palms, saltpetre, other. Cactus. Bamboo. Other trees	
Arise: collected, wooded. Surveyed	
Boundary, international	
state, demarcated, undemarcated	
district, subdivision, tahsil or block, tehsil	
Boundary of forest, surveyed, uncollected	
Height, triangulation station, point, approximate	
Bench-mark: geodetic, levelling, aneroid	
Post office. Telegraph office. Overhead tank	
Rest house or inspection bungalow. Guard house. Police station	
Camping ground. Forest reserved, protected	
Special named administrative, locality or tribal	
Headquarters. Dispensary. Veterinary Hospital / Dispensary	
Aerodrome. Helipad. Tourist place	
Power line, with pylons surveyed, with poles uncollected	

REFERENCES
M.P. 27 National Highway No. 37. M.P. 212 National Highway No. 31B

NOTES
Important buildings are shown in black with names.
Tanks shown dry, in this area usually contain water from July to December.
The boundary of Meghalaya shown on this map is as stipulated from the North-Eastern Area (Reorganisation) Act, 1951, but has yet to be verified.
Boundaries between Goalpara & Bongaigaon, Bongaigaon & Barpeta and Barpeta & Goalpara districts have been interpolated from the lines of S.O. 2, Govt. of Assam but has yet to be verified on the ground.
The area adjoining the Brahmaputra River is liable to change owing to continual fluctuation in the course of the river and remains usually flooded during rainy season.
Isolated trees are shown thus.

COMPILATION INDEX

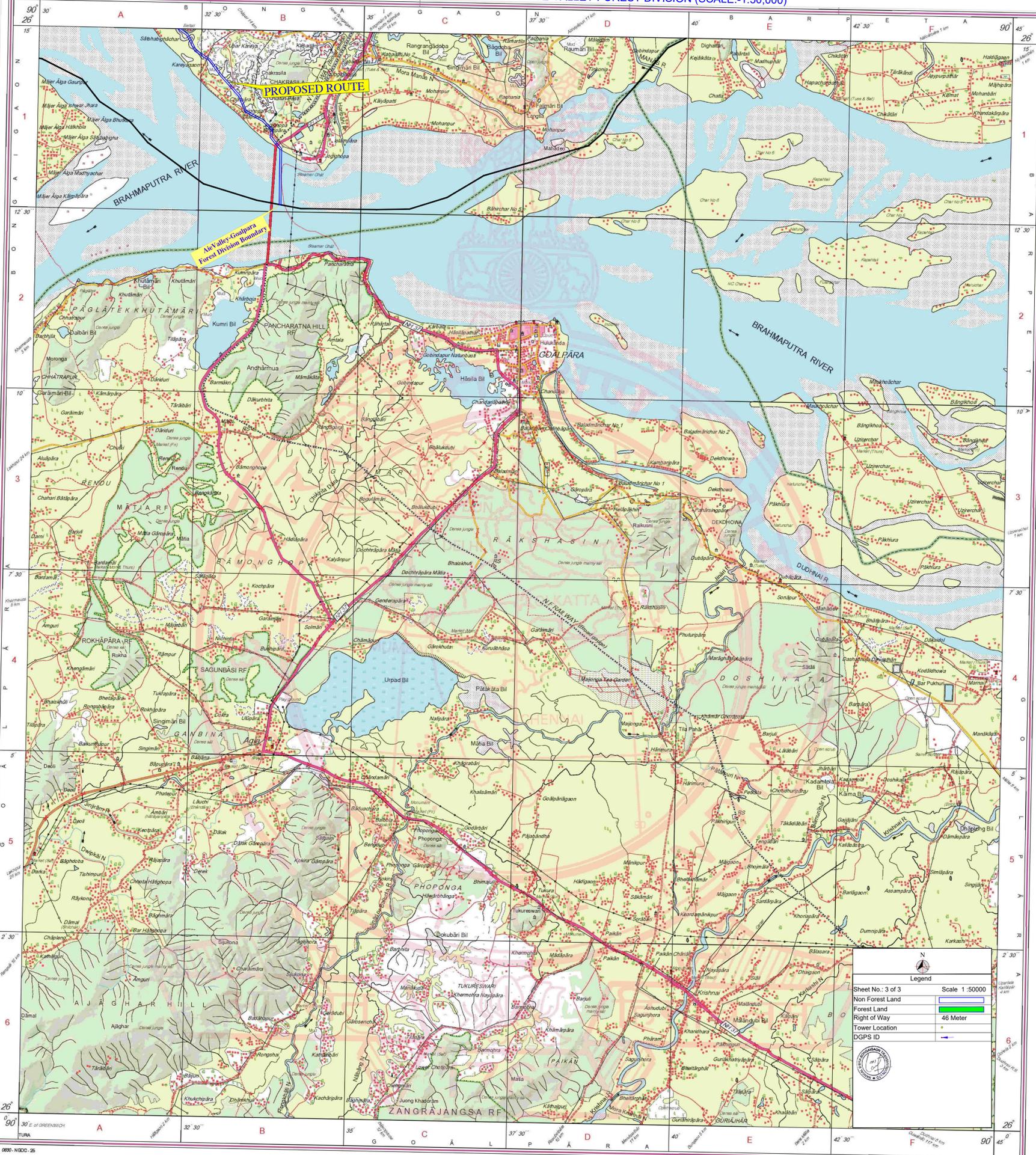
A	Surveyed during 1959-70. Updated for major details during 2005-06.
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Projection - UTM Datum - WGS 84
Magnetic Variation from True North about 1° West in 2005.
(Annual change negligible).
Scale 1:50,000
600 m to 1 cm
2 cm to 1 km
Metres 1000 0 1 2 3 Kilometres

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Legend

Non Forest Land	
Forest Land	
Right of Way	
Tower Location	
DGPS ID	

Scale 1:50,000
Sheet No. 3 of 3
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Department of Science & Technology, Government of India.