

No. F45015
 Scale 1:50,000

F45010 (73K/1)	Mayurbhanj ORISSA F45014 (73K/14)	F45P2 (73O/2)
F45011 (73K/11)	Baleshwar ORISSA F45015 (73K/15)	F45P3 (73O/3)
F45012 (73K/12)	F45016 (73K/16)	Sea

भारतीय सर्वेक्षण विभाग SURVEY OF INDIA

1st Edition 2011 Price: ₹ 11/-

CONVENTIONAL SYMBOLS

Express highway with M.T. with bridge with distance stone	
Road, metalled according to importance	
Road, double cartways according to importance	
Unmetalled road, cart-track, foot-path with pass, foot-path	
Shower with tank in bed, unconfined, canal	
Canal, masonry or rock-lined, unconfined, well	
Canal, dry with water channel, with shed & well, well, well	
Submerged road, stone, concrete, road	
Well, lined, unconfined, tube-well, spring, tank, perennial, dry	
Embankment, road or rail, tank, broken ground	
Railways, broad gauge, double, single with station, under construction	
Railways, meter gauge, double, single with distance stone	
Mineral, line or tramway, N.G. Casing with tunnel	
Contours with sub-features, Rocky slopes, Cliffs	
Soil features: (1) Red, (2) Red-silt, (3) Dunes, (4) Mounds	
Towns or Villages: Inhabited, deserted, Fort	
Huts, permanent, temporary, Tower, Antenna	
Temple, Church, Mosque, High, Tomb, Graves	
Lighthouse, Lightship, Beacon, lighted, unlighted, Anchorage	
Mine, pit or shaft, Open, Shaft, Pit, Well	
Pipeline, petroleum, other, Pipeline, Gas, Pipeline, Other	
Area: cultivated, wooded, surveyed tree	
Boundary, international	
State, demarcated, undemarcated	
Boundary pillar: surveyed, uncoloured	
Height, triangulated, station, point, approximate	
Bench-mark: geodetic, levelling, aneroid	
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 label	
Hospital, Dispensary, Veterinary Hospital / Dispensary	
Aerodrome, Helipad, Tourist site	
Power line with pylons surveyed, with poles unsurveyed	

Route of proposed pipeline
 Forest Boundary
 Affected Forest

REFERENCES
 PWD Public Works Department, NH 9 National Highway No. 9

NOTE :-
 Heights and Contours have not been shown.
 The horizontal scale of this map is to a distance of twelve nautical miles measured from the appropriate base line.
 A double height 'H' represents the approximate height in metres, between the top and bottom of a steep slope.
 The anterior boundaries of trees of Reserved or Protected Forests are shown by green ribbons.
 Road map is shown in red.

COMPILATION INDEX
 Compiled from 1:25,000 survey during 1954-55 & 1958-59

Projection - UTM Datum - WGS 84
 Magnetic Variation from True North about 1/2° West in 2005.
 (Annual change negligible)

Scale 1:50,000
 1 cm = 500 m
 2 cm = 1 km
 3 cm = 1.5 km

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



01/04

GAIL (India) LIMITED.
 (A Govt. of India Undertaking)
 JUBILEE TOWER, 8 & 9, DEPARTMENT 8TH FLOOR,
 B-35, 36 SECTOR-1, NOIDA 201301, G. B. NAGAR (U.P.) India

PROJECT: **DHAMRA - HALDIA PIPELINE PROJECT**

SECTION: **DHAMRA - HALDIA GAS PIPELINE (DHPL)**

SECTION: **Details of Revenue Forest to be Diverted District Balasore**

TITLE: **SOI MAP**

Scale: 1:50,000 Job No. TDC/GAIL/19-20 Drawing / Document No. TDC-GAIL-DHPL-20-19-RP-BALASORE-RM-01 Sheet 01-04 Rev. 08

GAIL (INDIA) LIMITED																
Project - Dhamra Haldia Pipeline Project																
Diversion Proposal in Balasore District of Odisha State																
List of Forest Land for Dhamra-Haldia Natural Gas Pipeline project																
Jurisdiction: Balasore Wildlife Division																
Sr. No.	Ref. No.	Forest Land Description	Thana No.	Khata No.	Survey/Pl of No.	RoW (m)	HAL (Ha.)	ON DT. 25.10.1980 (Sdha) (Ha.)	DLC (Ha.)	Reserva Forest (Ha.)	Area in (Sqm)	Area in (Ha)	Village	Tahsil	District	Legal Status of Forest Area
1	R16	Forest Land in Plot No. 896	89	215	895	10	0.0080	0.0000	0.0000	0.0000	80.00	0.0080	Baringia	Bahana	Balasore	Gramya Jungle
2	R17	Forest Land in Plot No. 126	17	252	125	10	0.0015	0.0000	0.0000	0.0000	15.00	0.0015	Alapur	Bahana	Balasore	Gramya Jungle
3	R18	Forest Land in Plot No. 815	6	378	815	10	0.0399	0.0000	0.0000	0.0000	399.00	0.0399	Mulakudal	Bahana	Balasore	Gramya Jungle
4	R19	Forest Land in Plot No. 1044	234	344	1044	10	0.0005	0.0000	0.0000	0.0000	5.00	0.0005	Uthuli	Remuna	Balasore	Gramya Jungle
5	R20	Forest Land in Plot No. 1044	234	344	1044	10	0.0056	0.0000	0.0000	0.0000	56.00	0.0056	Uthuli	Remuna	Balasore	Gramya Jungle
6	R21	Forest Land in Plot No. 245	118	263	245	10	0.0000	0.0000	0.0402	0.0000	402.00	0.0402	Bimbira	Remuna	Balasore	Gochara (DLC)
7	R22	Forest Land in Plot No. 146	118	263	146	10	0.0145	0.0000	0.0000	0.0000	146.00	0.0146	Bimbira	Remuna	Balasore	Gramya Jungle

No. F45014
Scale 1:50,000



भारतीय सर्वेक्षण विभाग SURVEY OF INDIA

1st Edition 2011. Price: ₹ 113/-

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, Pucca-track with pass, Foot-path
- Stream with track or foot-bridges, Canal
- Dam: history or rock-dam, weir, waterfall
- River: dry with water channel, with island & rocks, tidal river
- Submerged river, Shad, Swamp, Reservoir
- Water body: unmetalled, Tidal, Spring, Tidal, perennial, dry
- Embankment: road or rail, bank, broken ground
- Railway: broad gauge, double single with station, under construction
- Railway: narrow gauge, double single with station, under construction
- Mineral line or railway, K.C. Cutting with tunnel
- Contours with sub-factors, Rocky slopes, Cliff
- Sand feature: (S) flag, (C) sand-hill, (B) dunes, (L) dunes, (H) dunes
- Town or Village: inhabited, deserted, Fort
- Hamlet: permanent, temporary, Town, Antiquity
- Temple, Church, Mosque, Ugrah, Tank, Grave
- Lighthouse, Lightship, Buoy, Lighted, unlighted, Anchorage
- Mine: W on title, Cross, Shaft
- Falls: natural, other, Platan, Conifer, Bamboo, Other tree
- Area: cultivated, wooded, Reserved tree
- Boundary, international
- Electric substation, water or oil, tank
- Sanitary pit, survey, urinal, latrine
- Height, trigonometric, station, point, approximate, 200, 200, 200
- Spot height, geographic, tertiary, level, BM 63-2, 63-3
- Post office, Telegraph office, Overhead tank
- Rest house or inspection bungalow, Circuit house, Police station
- Camping ground, Forest, reserved, protected, RF
- Scared name: administrative, locality or tribal, KIKRI, NAGA
- Hospital, Dispensary, Veterinary Hospital / Dispensary
- Aerodrome, Helipad, Tourist site
- Power line: with pylons, unmetalled, with poles, unmetalled

Route of proposed pipeline
Forest Boundary
Affected Forest

REFERENCES
M & National Highway No. 6, PWD Public Works Department.

NOTES

- Height and Contour have not been shown.
- Important buildings are shown in blue with names.
- The subdivision boundary between Koppada and Bapatna Subdivisions of Mayurbhanj District in Blocks A7, A8 & B7 & B8 in this sheet has been entered as communicated by the authorities concerned, but yet to be verified.
- A relative height, h_r , represents the approximate height, in metres, between the top and bottom of a steep slope.
- The exterior boundaries of areas of Reserved Forests are shown by green bands.
- Hand Pump is shown thus: ...

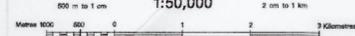
COMPILED INDEX

- A. Compiled from 1:25,000 survey 1962-63. Updated for major details during 2009-06.
- B. Compiled from 1:25,000 survey 1962-63. Updated for major details during 1988-89.

Projection - UTM Datum - WGS 84

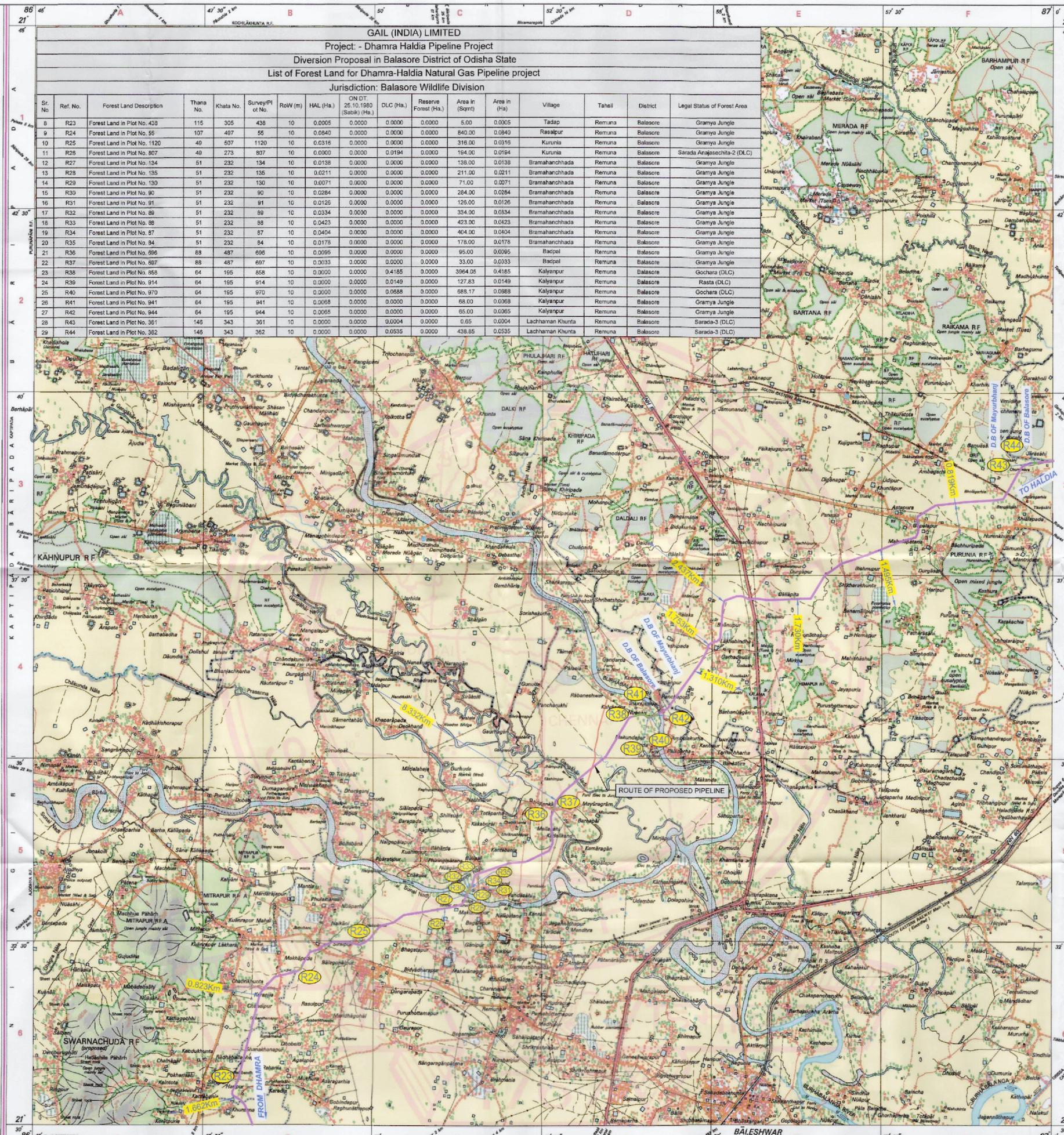
Magnetic Variation from True North about 1/2° West in 2005. (Actual change negligible).

Scale 1:50,000



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 - 230418



GAIL (INDIA) LIMITED
Project - Dhamra-Haldia Pipeline Project
Diversion Proposal in Balasore District of Odisha State
List of Forest Land for Dhamra-Haldia Natural Gas Pipeline project
Jurisdiction: Balasore Wildlife Division

Sr. No.	Ref. No.	Forest Land Description	Thana No.	Khata No.	Survey/PI of No.	RoW (m)	HAL (Ha.)	ON DT 25.10.1960 (Sakhi) (Ha.)	DLC (Ha.)	Reserve Forest (Ha.)	Area in (Sqrmt)	Area in (Ha)	Village	Tahsil	District	Legal Status of Forest Area
8	R23	Forest Land in Plot No. 438	115	305	438	10	0.0065	0.0000	0.0000	0.0000	5.00	0.0065	Tadap	Remuna	Balasore	Gramya Jungle
9	R24	Forest Land in Plot No. 55	107	497	55	10	0.0640	0.0000	0.0000	0.0000	840.00	0.0640	Rasulpur	Remuna	Balasore	Gramya Jungle
10	R25	Forest Land in Plot No. 1120	49	507	1120	10	0.0316	0.0000	0.0000	0.0000	316.00	0.0316	Kununia	Remuna	Balasore	Gramya Jungle
11	R26	Forest Land in Plot No. 807	49	273	807	10	0.0000	0.0000	0.0194	0.0000	194.00	0.0194	Kununia	Remuna	Balasore	Sarada Anajesechita-2 (DLC)
12	R27	Forest Land in Plot No. 134	51	232	134	10	0.0138	0.0000	0.0000	0.0000	138.00	0.0138	Bramahanchhada	Remuna	Balasore	Gramya Jungle
13	R28	Forest Land in Plot No. 135	51	232	135	10	0.0211	0.0000	0.0000	0.0000	211.00	0.0211	Bramahanchhada	Remuna	Balasore	Gramya Jungle
14	R29	Forest Land in Plot No. 130	51	232	130	10	0.0071	0.0000	0.0000	0.0000	71.00	0.0071	Bramahanchhada	Remuna	Balasore	Gramya Jungle
15	R30	Forest Land in Plot No. 90	51	232	90	10	0.0284	0.0000	0.0000	0.0000	284.00	0.0284	Bramahanchhada	Remuna	Balasore	Gramya Jungle
16	R31	Forest Land in Plot No. 91	51	232	91	10	0.0126	0.0000	0.0000	0.0000	126.00	0.0126	Bramahanchhada	Remuna	Balasore	Gramya Jungle
17	R32	Forest Land in Plot No. 89	51	232	89	10	0.0334	0.0000	0.0000	0.0000	334.00	0.0334	Bramahanchhada	Remuna	Balasore	Gramya Jungle
18	R33	Forest Land in Plot No. 88	51	232	88	10	0.0423	0.0000	0.0000	0.0000	423.00	0.0423	Bramahanchhada	Remuna	Balasore	Gramya Jungle
19	R34	Forest Land in Plot No. 87	51	232	87	10	0.0404	0.0000	0.0000	0.0000	404.00	0.0404	Bramahanchhada	Remuna	Balasore	Gramya Jungle
20	R35	Forest Land in Plot No. 84	51	232	84	10	0.0178	0.0000	0.0000	0.0000	178.00	0.0178	Bramahanchhada	Remuna	Balasore	Gramya Jungle
21	R36	Forest Land in Plot No. 866	88	487	866	10	0.0096	0.0000	0.0000	0.0000	96.00	0.0096	Badpel	Remuna	Balasore	Gramya Jungle
22	R37	Forest Land in Plot No. 887	88	487	887	10	0.0033	0.0000	0.0000	0.0000	33.00	0.0033	Badpel	Remuna	Balasore	Gramya Jungle
23	R38	Forest Land in Plot No. 858	64	195	858	10	0.0000	0.0000	0.4185	0.0000	394.05	0.4185	Kalyanpur	Remuna	Balasore	Gochara (DLC)
24	R39	Forest Land in Plot No. 914	64	195	914	10	0.0000	0.0000	0.0149	0.0000	127.83	0.0149	Kalyanpur	Remuna	Balasore	Rasta (DLC)
25	R40	Forest Land in Plot No. 970	64	195	970	10	0.0000	0.0000	0.0688	0.0000	688.17	0.0688	Kalyanpur	Remuna	Balasore	Gochara (DLC)
26	R41	Forest Land in Plot No. 941	64	195	941	10	0.0068	0.0000	0.0000	0.0000	68.00	0.0068	Kalyanpur	Remuna	Balasore	Gramya Jungle
27	R42	Forest Land in Plot No. 944	64	195	944	10	0.0065	0.0000	0.0000	0.0000	65.00	0.0065	Kalyanpur	Remuna	Balasore	Gramya Jungle
28	R43	Forest Land in Plot No. 361	146	343	361	10	0.0000	0.0000	0.0004	0.0000	0.65	0.0004	Lachaman Khunta	Remuna	Balasore	Sarada-3 (DLC)
29	R44	Forest Land in Plot No. 362	146	343	362	10	0.0000	0.0000	0.0035	0.0000	438.85	0.0035	Lachaman Khunta	Remuna	Balasore	Sarada-3 (DLC)

Distance of RF from Proposed Route

Sr. No.	Reserved Forest	Approx. Distance from Pipeline (Km)
2	Swarnachuda RF	1.662
3	Mitrapur RF	0.823
4	Kahunupur RF	8.332
5	Balaka RF	1.753
6	Daldali RF	2.437
7	Kalama RF	1.310
8	Hemapur RF	1.730
9	Patharasihi	1.495
10	Purunia RF	0.819

GAIL (India) LIMITED.
(A Govt. of India Undertaking)
JUBILEE TOWER 3 & 4th FLOOR, 6th FLOOR,
9-35-36 SECTOR-1, NOIDA 201301, G.B. NAGAR (U.P.) India

PROJECT: DHAMRA - HALDIA PIPELINE PROJECT
SECTION: DHAMRA - HALDIA GAS PIPELINE (DHPL)

Details of Revenue Forest to be Diverted District Balasore

SOI MAP

THE ODESH CONSULTANTS
DHPL

Scale: 1:50,000 Job No. TDC/GAIL/19-20 Drawing / Document No. TDC-GAIL-DHPL-20-P19-RF-BALASORE-RM-02 Sheet 02-04 Rev. 0A



CONVENTIONAL SYMBOLS

Express highway with bridge with distance stone	
Roads, metalled according to importance	
Unmetalled road, Cart-track, Paved with pebbles, Foot-path	
Stream with track in bed, underflow, Canal	
Dam, masonry or rock-faced, earthwork, Weir	
River dry with water channel, with island & rocks, Tidal river	
Submerged rocks, Shoal, Swamp, Reeds	
Well, fringed, unlined, Tube-well, Spring, Tank, Personal, dry	
Embankment, road or rail, bank, Broken ground	
Railways, broad gauge, double, single with station under control	
Railways, other gauge, double, single with distance stone	
Mineral line or tramway, Kila, Cutting with tunnel	
Contours with sub-heights, Rocky slopes, Cliff	
Sand features, (Mud) Sand-dune, (barrenness), (Silt) Sand-dune	
Towns or Villages, Isolated, Town, Port	
Road, permanent, temporary, Tunnel, Aqueduct	
Temple, Church, Mosque, Light, Tower, Green	
Lighthouse, Lighthouse, Buoy, Lighted, Beacon, Light	
Mica, View on traffic, Green, Sand	
Palms, palm-tree, other, Heron, Cuckoo, Bamboo, Other tree	
Areas cultivated, wooded, Surveyed tree	
Boundary, international	
State, demarcated, undemarcated	
District, subdivision, taluk or tehsil, forest	
Boundary pillars, surveyed, un-surveyed, village junction	
Height, triangulation station, point, approximate	
Height, bench-mark, geodetic, tertiary, canal	
Post office, Telegraph office, Overhead tank	
Post house or inspection bungalow, Check house, Police station	
Camping ground, Forest, reserved, protected	
Special name, administrative, locality or taluk	
Hospital, Dispensary, Veterinary hospital	
Aerodrome, Helipad, Tourist site	
Power line, with pylons surveyed, with poles unsurveyed	

Route of proposed pipeline
 Forest Boundary
 Affected Forest

REFERENCES

MV 60 National Highway No. 60 PWD Public Works Department.

NOTES

A relative height, h , represents the approximate height, in metres, between the top and bottom of a steep slope.
 Fences take pedestrian traffic only by country roads.
 The horizontal waters of India extend into the sea to a distance of twelve nautical miles measured from the appropriate base line.
 The district boundary between Balasore and Mayurbhanj Districts has been surveyed as pointed out by the vertical pillars on the ground, but has not been verified by the district authorities.
 The sector boundaries of areas of Reserved or Protected Forests are shown by green chains. Hand Pump is shown thus.

COMPILEMENT INDEX

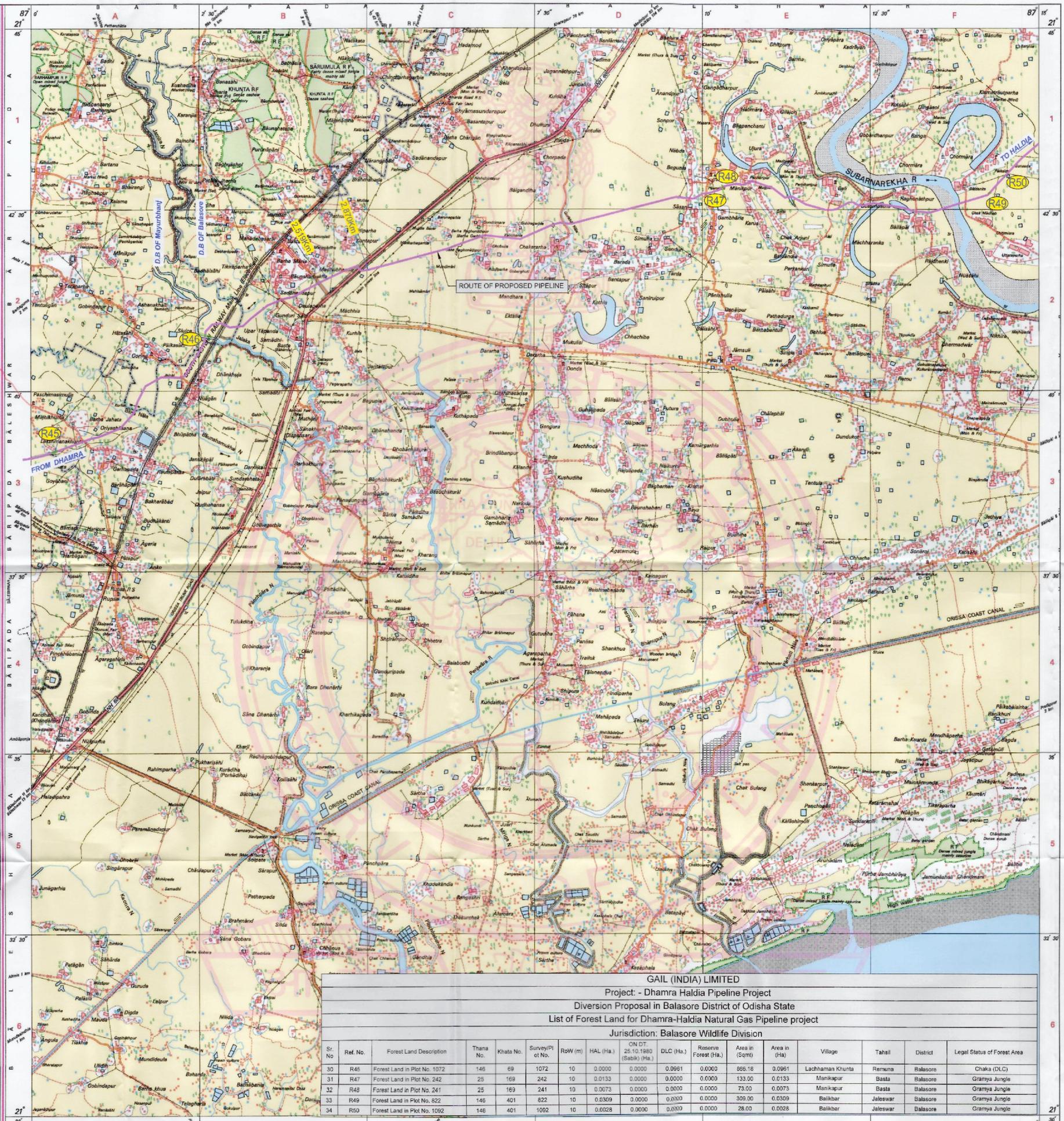
A. Compiled from 1:50,000 survey, 1958-59.

Projection - UTM Datum - WGS 84

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

Scale 1:50,000
 500 m to 1 cm
 Metres 500 0 500 1 2 3 Kilometres

For further details about this map, please contact:
 Director,
 Orissa Geo-Spatial Data Centre,
 Survey of India,
 Survey Bhawan, PO - R R Laboratory,
 Bhubaneswar.
 Fax : 0674 - 2301418



Distance of RF from Proposed Route

Sr. No.	Reserved Forest	Approx. Distance from Pipeline (Km)
11	Khunta RF	2.519
12	Sarumula RF	2.870

श्री गौरी प्रियंका सुनील कुमार पण्डा
 श्री गौरी प्रियंका सुनील कुमार पण्डा (GAIL India) Limited
 जूबिली टॉवर, 8 & 9 फ्लोर, 4TH फ्लोर,
 612, 3RD फ्लोर, पश्चिम, एन-5
 612, Link Signal, Pahalra, NH-5
 फोन-752101/धुबानेश्वर-752101

GAIL (India) LIMITED.
 (A Govt. of India Undertaking)
 JUBILEE TOWER, 8 & 9 FLOOR, 4TH FLOOR,
 B-35 36 SECTOR-1, NOIDA 201301, G.S. NAGAR (U.P.) India

PROJECT: **DHAMRA - HALDIA PIPELINE PROJECT**
 SECTION: **DHAMRA - HALDIA PIPELINE (DHPL)**

SECTION: **Details of Revenue Forest to be Diverted District Balasore**

TITLE: **SOI MAP**

THE ODESH CONSULTANTS
 DHPL

Scale: 1:50,000 Job No. TDC-GAIL-19-20 Drawing / Document No. TDC-GAIL-DHPL-20-F19-RF-BALASORE-RM-03 Sheet 03/04 Rev. 0A

GAIL (INDIA) LIMITED
 Project - Dhamra Haldia Pipeline Project
 Diversion Proposal in Balasore District of Odisha State
 List of Forest Land for Dhamra-Haldia Natural Gas Pipeline project
 Jurisdiction: Balasore Wildlife Division

Sr. No.	Ref. No.	Forest Land Description	Thana No.	Khata No.	Survey/Plt. of No.	RoW (m)	HAL (Ha.)	ON DT 25-10-1980 (Sabki) (Ha.)	DLC (Ha.)	Reserve Forest (Ha.)	Area in (Sqm)	Area in (Ha.)	Village	Tahsil	District	Legal Status of Forest Area
30	R46	Forest Land in Plot No. 1072	146	69	1072	10	0.0000	0.0000	0.0961	0.0000	866.16	0.0961	Lachaman Khunta	Remuna	Balasore	Chaka (DLC)
31	R47	Forest Land in Plot No. 242	25	169	242	10	0.0133	0.0000	0.0000	0.0000	133.00	0.0133	Manikapur	Basta	Balasore	Gramya Jungle
32	R48	Forest Land in Plot No. 241	25	169	241	10	0.0073	0.0000	0.0000	0.0000	73.00	0.0073	Manikapur	Basta	Balasore	Gramya Jungle
33	R49	Forest Land in Plot No. 822	146	401	822	10	0.0309	0.0000	0.0000	0.0000	309.00	0.0309	Balibar	Jaleswar	Balasore	Gramya Jungle
34	R50	Forest Land in Plot No. 1092	146	401	1092	10	0.0028	0.0000	0.0000	0.0000	28.00	0.0028	Balibar	Jaleswar	Balasore	Gramya Jungle

