निर्यात के लिए नहीं NOT FOR EXPORT

OPEN SERIES MAP

No. F45B14

Scale 1:50,000

F45B9 (73E/9)	F45B13 (73E/13)	Giridih JHĀRKHAND F45C1 (73I/1)
F45B10 (73E/10) Hazāribāg JHĀRKHAND	Bokāro JHĀRKHAND F45B14 (73E/14)	F45C2 (73I/2)
F45B11 (73E/11) Rānchi JHĀRKHAND	F45B15 (73E/15)	F45C3 (73I/3) Puruliya WEST BENGAL

1 Dhanbād, JHĀRKHAND.

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 with 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. Tanks: perennial; dry
Embankments: road or rail; tank. Broken ground
Railways, broad gauge: double; single with station; under constrn
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: (1)flat,(2)sand-hills (permanent). (3)dunes(shifting).
Towns or Villages: inhabited; deserted. Fort
Huts: permanent; temporary. Tower. Antiquities
Temple. Chhatri. Church. Mosque. Idgāh. 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 tāluk; forest
Boundary pillars: surveyed; unlocated
Heights, triangulated: station; point; approximate. △ 200 . 200 ' .200
Bench-mark: geodetic; tertiary; canal . BM 63·3 . 63·3 . 63
Post office. Telegraph office. Overhead tank.
Rest house or Inspection bungalow. Circuit house. Police station
Camping ground. Forest: reserved; protected CG R F P F
Spaced names: administrative; locality or tribal . KIKRI NĀGA
Hospital. Dispensary. Veterinary: Hospital / Dispensary
Aerodrome. Helipad. Tourist site
Power line: with pylons surveyed; with poles unsurveyed

Compensatory Afforestation (CA) Land

CA Boundary Point

CA Boundary Point ID P1-P39

REFERENCES

NH 22 National Highway No. 23. SER South Eastern Railway.

CMBK Chandil Muri Barka Kāna.

NOTES :–

Heights are in metres and above Indian mean sea level.
Contours are approximate.
A relative height, ..6r., represents the approximate height, in metres, between the top and bottom of a steep slope.
Tanks, shown dry, in this area usually contain water from July to December.
The kilometre stone numbers along roads are shown in slant type, e.g., '9' whereas milestone numbers are shown in upright type, e.g. 5.
Cultivation is periodic and dependent on rainfall.
Unmetalled road along the canal embankment is shown by cart-track symbol.
All unmetalled roads are motorable in dry season.
A relativ height, e.g. ..6r. marked along a canal, indicates the height of the top of the canal embankment above the adjacent country.

COMPILATION INDEX

A. Surveyed during 1975–76. Updated for major details from 1:25,000 survey 1988–89 and from satellite imagery of 2007 During 2008–09.

Projection – UTM Datum – WGS 84

Magnetic Variation from True North about $\frac{1}{2}$° West in 2005. (Decreasing by about 1' annually).

500 m to 1 cm 1:50,000 2 cm to 1 km

Metres 1000 500 0 1 2 3 Kilometres

CONTOUR INTERVAL 10 METRES

For further details about this map, please contact
Director
Jhārkhand Geo-Spatial Data Centre
Survey of India, Doranda
Rānchi – 834002.
Fax : 0651 – 2482789

WEBSITE – www.surveyofindia.gov.in

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REG. No. –SPQ D'09 (Jhārkhand GDC–1:50,000)–

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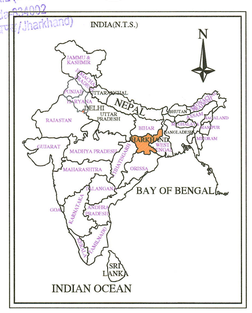
01/01

Manish Kumar
प्रबंधक (निर्माण)/Manager (Construction)
गेल (इंडिया) लिमिटेड/GAIL (India) Limited
डोरण्डा/Doranda-834002
राँची/Ranchi (झारखण्ड)/(Jharkhand)



DGPS Surveyed Co-ordinates of Boundary Points

Name	Index	Easting	Northing	Longitude	Latitude
1	P1	387789.332	2605382.910	85° 54' 02.03" E	23° 33' 17.75" N
2	P2	387743.717	2605361.414	85° 54' 00.43" E	23° 33' 17.04" N
3	P3	387710.328	2605344.949	85° 53' 59.25" E	23° 33' 16.49" N
4	P4	387676.383	2605316.007	85° 53' 58.06" E	23° 33' 15.54" N
5	P5	387638.533	2605312.060	85° 53' 56.73" E	23° 33' 15.41" N
6	P6	387614.973	2605313.708	85° 53' 55.90" E	23° 33' 15.45" N
7	P7	387598.177	2605280.041	85° 53' 55.31" E	23° 33' 14.35" N
8	P8	387590.665	2605237.789	85° 53' 55.06" E	23° 33' 12.98" N
9	P9	387548.013	2605227.297	85° 53' 53.56" E	23° 33' 12.63" N
10	P10	387518.030	2605198.371	85° 53' 52.51" E	23° 33' 11.68" N
11	P11	387467.238	2605165.266	85° 53' 50.73" E	23° 33' 10.59" N
12	P12	387431.284	2605173.744	85° 53' 49.46" E	23° 33' 10.86" N
13	P13	387386.739	2605194.297	85° 53' 47.88" E	23° 33' 11.51" N
14	P14	387347.075	2605184.650	85° 53' 46.48" E	23° 33' 11.19" N
15	P15	387302.162	2605217.134	85° 53' 44.89" E	23° 33' 12.24" N
16	P16	387256.459	2605250.380	85° 53' 43.27" E	23° 33' 13.30" N
17	P17	387218.764	2605275.213	85° 53' 41.94" E	23° 33' 14.10" N
18	P18	387188.001	2605302.010	85° 53' 40.85"E	23° 33' 14.97"N
19	P19	387169.015	2605352.011	85° 53' 40.16"E	23° 33' 16.59"N
20	P20	387182.006	2605394.072	85° 53' 40.61" E	23° 33' 17.96" N
21	P21	387201.497	2605416.719	85° 53' 41.29" E	23° 33' 18.70" N
22	P22	387233.380	2605439.398	85° 53' 42.41" E	23° 33' 19.44" N
23	P23	387252.475	2605481.641	85° 53' 43.07" E	23° 33' 20.82" N
24	P24	387274.220	2605518.447	85° 53' 43.82" E	23° 33' 22.02" N
25	P25	387306.235	2605542.732	85° 53' 44.95" E	23° 33' 22.82" N
26	P26	387346.402	2605571.209	85° 53' 46.36" E	23° 33' 23.76" N
27	P27	387381.321	2605599.196	85° 53' 47.58" E	23° 33' 24.68" N
28	P28	387432.563	2605596.001	85° 53' 49.39" E	23° 33' 24.59" N
29	P29	387477.232	2605602.431	85° 53' 50.96" E	23° 33' 24.81" N
30	P30	387524.477	2605613.160	85° 53' 52.63" E	23° 33' 25.17" N
31	P31	387546.993	2605575.513	85° 53' 53.43" E	23° 33' 23.95" N
32	P32	387588.041	2605561.236	85° 53' 54.88" E	23° 33' 23.49" N
33	P33	387639.342	2605542.814	85° 53' 56.70" E	23° 33' 22.91" N
34	P34	387677.558	2605549.714	85° 53' 58.04" E	23° 33' 23.14" N
35	P35	387701.560	2605505.029	85° 53' 58.90" E	23° 33' 21.70" N
36	P36	387709.732	2605462.679	85° 53' 59.20" E	23° 33' 20.32" N
37	P37	387689.593	2605415.673	85° 53' 58.50" E	23° 33' 18.79" N
38	P38	387739.212	2605400.975	85° 54' 00.26" E	23° 33' 18.32" N
39	P39	387787.313	2605385.025	85° 54' 01.96" E	23° 33' 17.82" N

Bokaro Forest Division
CA Land Proposed to GAIL : 16.73 Ha.
Survey No. 41
Village : Raghunathpur
Tehsil : Peterwar
District : Bokaro

CLIENT :

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

PROJECT :
Tie-in Connectivity of ONGC
Bokaro 12"x 24 km under JHBDPL Network

SECTION :
FROM SV-01 AT BOKARO-ANGUL
SECTION OF JHBDPL AT CH.22.898KM TO BOKARO GCS

WORK :
Details of CA LAND to be Diverted
Village: Raghunathpur, District: Bokaro, State: Jharkhand

TITLE :
SOI MAP

THEODESH CONSULTANTS
ISO 9001:2015 Cert No.0316QS0500003

CODE : GCS BOKARO

Scale	Job No.	Drawing / Document No.	Sheet	Rev.
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