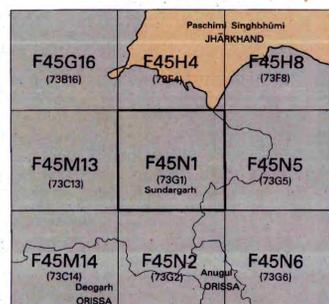


# TOPO MAP SHOWING ML BOUNDARY OF MAHULSUKHA IRON & MANGANESE ORE BLOCK OF M/s PATNAIK MINERALS PVT. LTD. IN SUNDARGARH DISTRICT.



OPEN SERIES MAP

No. F45N1  
Scale 1:50,000



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
- Stream: with track in bed; underflow; Canal
- Dam: masonry or rock-filled; earthwork; Weir
- River: dry with water channel; with island & rocks; Tidal river
- Submerged rocks, Shoal, Swamp, Flood
- Wells: lined; unlined; Tube-well; Spring; Tank; permanent; dry
- Embankment: 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, Kin. Cutting with tunnel
- Contours with sub-features. Rocky slopes, Cliffs
- Sand features: (filled) dunes; dunes; dunes; dunes
- Towns or Villages: (shaded) hills; (dotted) hills
- Hut: permanent; temporary; Tower; Antiquities
- Temple; Church; Mosque; Light; Tomb; Graves
- Lighthouse; Lightship; Buoy: lighted; unlighted; Anchorage
- Mine: Vine on trellis; Grass; Scrub
- Palms: palms; other; Pandan; Conifer; Bamboo; Other trees
- Areas: cultivated; wooded; Forested; Surveyed tree
- Boundary, International
- state: demarcated; undemarcated
- district: subdivision; taluk or taluk; forest
- Boundary pillars: surveyed; unlocated
- Height: triangulated; station; point; approximate
- Bench-mark: geodetic; tertiary; canal
- Post office, Telegraph office, Overhead tank
- Rail 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

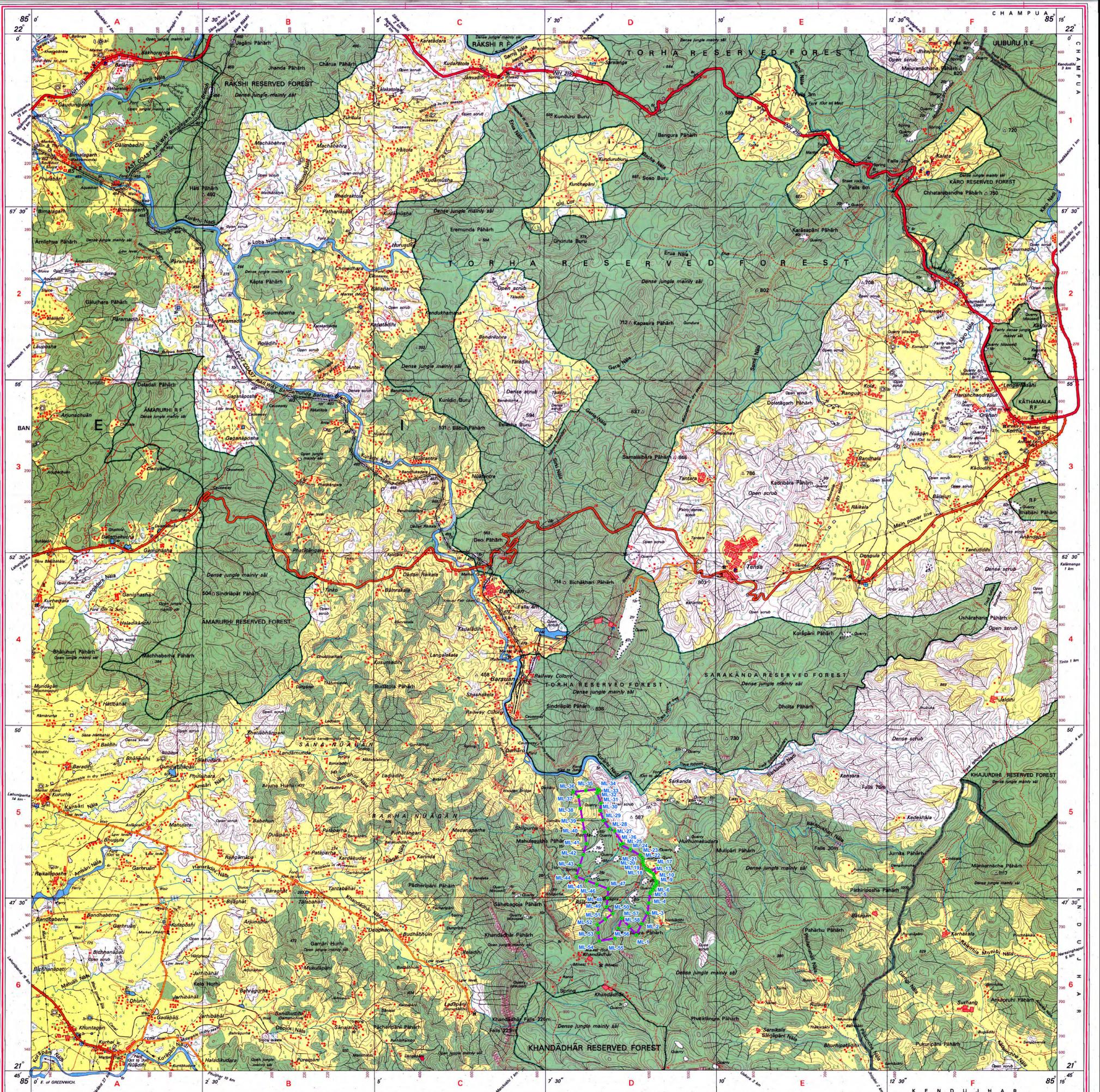
REFERENCES  
REO Rural Engineering Organisation, PWD Public Works Department, NH 218 National Highway No. 218.

NOTES  
Heights are in metres and above Indian mean sea level. Contours are approximate. A relative height, *h<sub>r</sub>*, represents the approximate height, in metres, between the top and bottom of a steep slope. Hand Pump is shown thus:

COMPILED INDEX  
A Compiled from 1:25,000 survey 1978-79. Updated for major details during 2009-06.

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  
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  
Fax : 0674 - 2301418  
WEBSITE - www.surveyofindia.gov.in

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LEGEND  
● ML PILLARS  
▭ ML BOUNDARY

For M/s Patnaik Minerals (P) Ltd.

B. MOHAPATRA  
GENERAL MANAGER (P & C)  
M/S. PATNAIK MINERALS PVT. LTD.

MAP PREPARED BY  
DIGITAL CARTOGRAPHY AND SERVICES (DCS) PVT LTD  
1015, Bhagabat Sandhan,  
GGP Canal Road, Rasulgarh, Bhubaneswar