

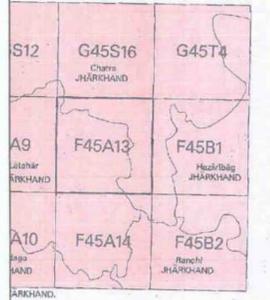




निर्वात के लिये नहीं NOT FOR EXPORT

OPEN SERIES MAP

No. F45A13  
Scale 1:50,000



भारत विभाग SURVEY OF INDIA

CONVENTIONAL SYMBOLS

Red line with ticks	Black line with ticks	Blue line with ticks	Green line with ticks
Black line with dots	Black line with dashes	Black line with circles	Black line with squares
Black line with triangles	Black line with diamonds	Black line with stars	Black line with crosses
Black line with pluses	Black line with asterisks	Black line with hashes	Black line with percent signs
Black line with ampersands	Black line with at signs	Black line with dollar signs	Black line with pound signs
Black line with yen signs	Black line with euro signs	Black line with rupee signs	Black line with dollar signs

REFERENCE

NOTES

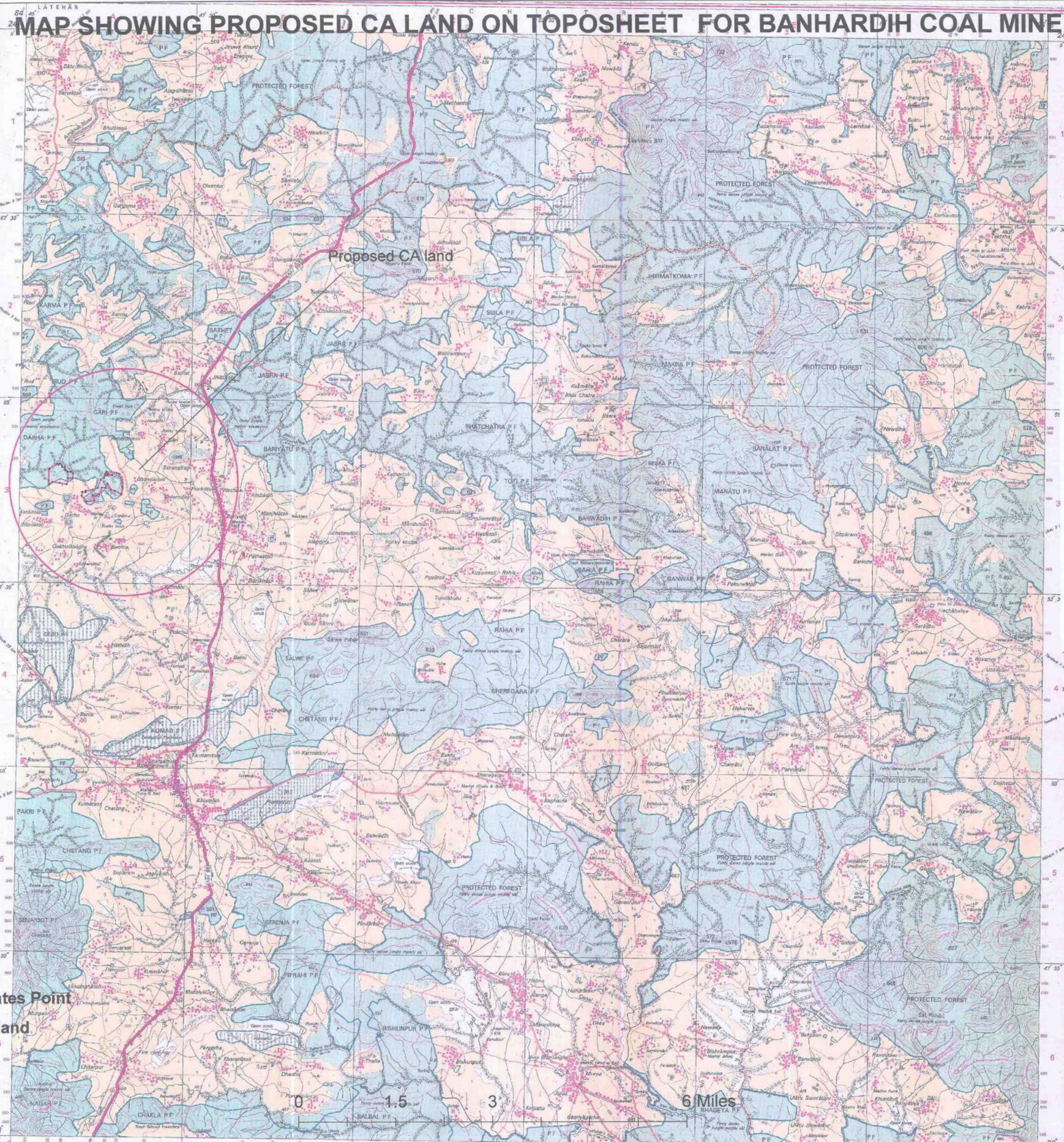
Legend

Geo Co-ordinates Point

Proposed CA land

Scale 1:50,000

CONTOUR INTERVAL: 20 METRES



GEO CO-ORDINATES POINTS OF PILLAR POINTS

UTM - WGS84

SL.NO.	LATITUDE	LONGITUDE	SL.NO.	LATITUDE	LONGITUDE
1	23°53' 51.649" N	84°45' 28.615" E	28	23°53' 44.769" N	84°45' 58.125" E
2	23°53' 49.886" N	84°45' 25.582" E	29	23°53' 45.566" N	84°46' 4.057" E
3	23°53' 55.533" N	84°45' 25.337" E	30	23°53' 47.107" N	84°46' 8.433" E
4	23°54' 2.370" N	84°45' 25.530" E	31	23°53' 54.030" N	84°46' 10.883" E
5	23°54' 4.914" N	84°45' 30.018" E	32	23°53' 55.588" N	84°46' 13.867" E
6	23°54' 6.295" N	84°45' 32.592" E	33	23°53' 57.501" N	84°46' 14.679" E
7	23°54' 5.795" N	84°45' 33.704" E	34	23°53' 57.257" N	84°46' 15.585" E
8	23°54' 6.408" N	84°45' 34.388" E	35	23°53' 57.852" N	84°46' 17.166" E
9	23°54' 6.634" N	84°45' 35.462" E	36	23°53' 57.469" N	84°46' 21.054" E
10	23°54' 3.770" N	84°45' 37.082" E	37	23°53' 58.097" N	84°46' 21.097" E
11	23°54' 3.896" N	84°45' 39.107" E	38	23°53' 58.637" N	84°46' 17.052" E
12	23°54' 1.829" N	84°45' 39.131" E	39	23°53' 59.266" N	84°46' 15.450" E
13	23°54' 0.877" N	84°45' 39.961" E	40	23°54' 0.406" N	84°46' 15.924" E
14	23°54' 1.006" N	84°45' 40.515" E	41	23°53' 59.581" N	84°46' 25.000" E
15	23°54' 0.047" N	84°45' 41.907" E	42	23°53' 58.849" N	84°46' 27.273" E
16	23°54' 0.100" N	84°45' 44.802" E	43	23°53' 56.136" N	84°46' 28.356" E
17	23°53' 59.512" N	84°45' 45.204" E	44	23°53' 48.645" N	84°46' 29.928" E
18	23°53' 59.022" N	84°45' 46.632" E	45	23°53' 42.025" N	84°46' 29.329" E
19	23°53' 55.083" N	84°45' 46.153" E	46	23°53' 44.979" N	84°46' 23.612" E
20	23°53' 54.942" N	84°45' 42.051" E	47	23°53' 45.614" N	84°46' 20.103" E
21	23°53' 52.468" N	84°45' 41.897" E	48	23°53' 46.337" N	84°46' 20.142" E
22	23°53' 49.916" N	84°45' 41.277" E	49	23°53' 50.856" N	84°46' 16.884" E
23	23°53' 36.650" N	84°46' 5.714" E	50	23°53' 47.180" N	84°46' 15.340" E
24	23°53' 36.068" N	84°45' 58.742" E	51	23°53' 47.594" N	84°46' 12.092" E
25	23°53' 40.436" N	84°45' 54.585" E	52	23°53' 41.747" N	84°46' 9.949" E
26	23°53' 43.844" N	84°45' 54.933" E	53	23°53' 40.996" N	84°46' 4.371" E
27	23°53' 43.630" N	84°45' 58.067" E			

Village Name	Thana No
DARHA	83
Thana Name	Division
BALUMATH	LATEHAR
Range	Area(Ha)
BALUMATH	50.8

वन क्षेत्र पर्यावरण  
संरक्षण वन क्षेत्र

User Agency- Banhardih Coal mine, PVUNL

Surveyed By	Project Proponent	Divisional Forest Officer, Latehar
	SUBODH JOHN PURTI Sr. Manager (CIVIL/Coal Mine) PATRAJU VIDYUT UTPADAN NIGAM LTD. (A Subsidiary of NTPC Ltd. In Joint Venture with JGCPL) Patraju, Dist. - Ramgarh - 822119	Praveen Prasad IFS Divisional Forest Officer Latehar Forest Division

84°42'0"E 84°43'0"E 84°44'0"E 84°45'0"E 84°46'0"E 84°47'0"E 84°48'0"E 84°49'0"E 84°50'0"E 84°51'0"E 84°52'0"E 84°53'0"E 84°54'0"E 84°55'0"E 84°56'0"E 84°57'0"E 84°58'0"E 84°59'0"E 85°0'0"E 85°1'0"E 85°2'0"E 85°3'0"E 85°4'0"E



**No. F45A13**  
Scale 1:50,000

G45S12	G45S16	G45T4
F45A9	F45A13	F45B1
F45A10	F45A14	F45B2

भारतीय सर्वेक्षण विभाग SURVEY OF INDIA

1st Edition 2008 Price : Rs. 50/-

**CONVENTIONAL SYMBOLS**

Express highway with toll with toll barrier with barrier stone	
Road, metalled according to importance	
Road, unmetalled according to importance	
Unmetalled road, Cart-track, Path-road with path, foot-path	
Bromus with track in both directions, Canal	
Dam: masonry or rock-filled earthwork, Weir	
Water shed with water channel with island & locks, Canal, Tidal river	
Submerged rocks, Shoal, Swamp, heath	
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	
Railways, other gauges: double, single with station, under construction	
Mine shaft, open or covered, R.R., Cutting with tunnel	
Contour with spot-heights, Rocky slopes, Cliff	
Contour with spot-heights, Rocky slopes, Cliff	
Tower or lighthouse, weathered, elevated, Fort	
Fort, masonry, masonry, Tower, Adobite	
Temple, Chhatra, Church, Mosque, High Tank, Grove	
Lighthouse, Lightship, Buoy, lighted, unlighted, Anchorages	
Mine, Wind on, Wells, Open, Sink	
Palms, palm-trees, other, Platanus, Cactus, Barren, Other trees	
Areas: cultivated, wooded, Swampy, bare	
Boundary, international	
State, demarcated, undemarcated	
State, subdivision, sub-division, village, village	
Boundary pillar: surveyed, un-surveyed, village, village	
Height, triangulation, electric, aneroid, approximate	
Spot-height, trigonometric, levelling, aneroid	
Spot-height, trigonometric, levelling, aneroid	
Rail track or locomotive, passenger, freight, electric, diesel, steam	
Camping ground, Forest, reserved, protected	
Gravel, sand, limestone, locality, or road	
Hospital, Dispensary, Veterinary hospital	
Aerodrome, Heliport, Turboprop	
Power line with pylons, overhead, with poles, un-surveyed	

**REFERENCE**

NW 39 National Highway No. 39

**NOTES**

Heights are in metres and above Indian mean sea level. Contours are approximate. This sheet is in the area usually covered under July to December. Unmetalled roads and cart-roads in this sheet are generally metalled in dry season. The common boundaries of the Protected Forests at some places in this sheet have not been shown for want of reliable information. A relative height, as represented by the approximate height, in metres, between the top and bottom of a spot height. The spot heights or areas of reference in Protected Forests are shown by green circles. The village names mentioned along roads are shown in black type, e.g. whereas reference numbers are shown in white type, e.g. 6.

**Legend**

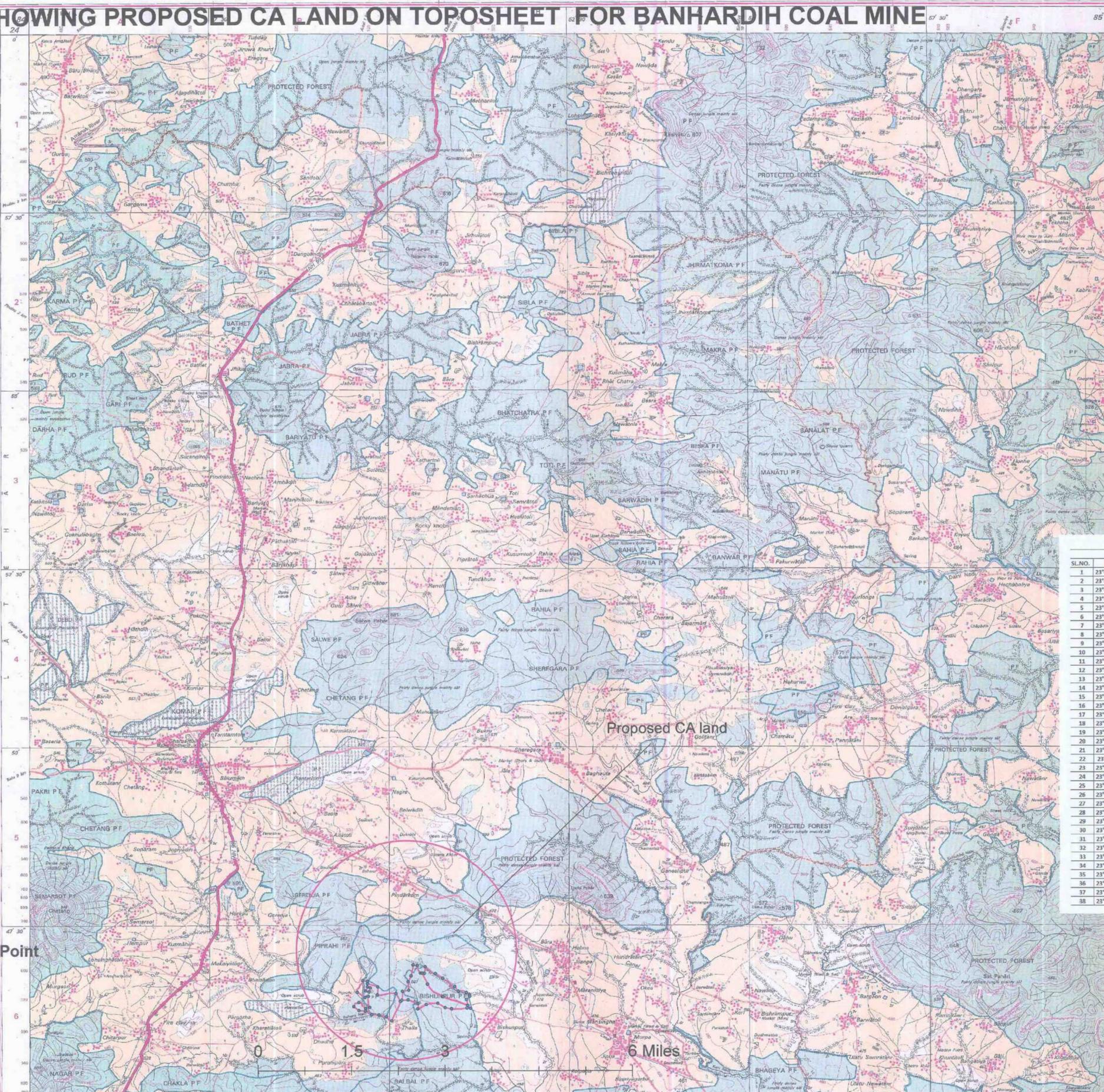
**Geo Co-ordinates Point**

**Proposed CA land**

Projection: UTM  
Magnetic Variation from True North about 1/4° West in 2005. (Decreasing by about 1' annually).

Scale: 1:50,000

Director, Jharkhand Geo-Spatial Data Centre, Survey of India, Doodhnoi, Ranchi - 834001



Village Name	Thana No
BISHUNPUR	223
Thana Name	Division
BALUMATH	LATEHAR
Range	Area(Ha)
BALUMATH	160

**Geo CO-ORDINATES POINTS OF PILLAR POINTS**

SL.NO.	LATITUDE	LONGITUDE	SL.NO.	LATITUDE	LONGITUDE	SL.NO.	LATITUDE	LONGITUDE
1	23°46' 21.199" N	84°49' 42.179" E	39	23°46' 37.599" N	84°49' 45.672" E	77	23°46' 53.318" N	84°50' 31.652" E
2	23°46' 28.017" N	84°49' 41.572" E	40	23°46' 34.132" N	84°49' 42.614" E	78	23°46' 53.318" N	84°50' 31.652" E
3	23°46' 30.556" N	84°49' 42.052" E	41	23°46' 34.911" N	84°49' 39.901" E	79	23°46' 52.326" N	84°50' 33.334" E
4	23°46' 31.044" N	84°49' 40.149" E	42	23°46' 27.318" N	84°50' 10.069" E	80	23°46' 49.499" N	84°50' 36.694" E
5	23°46' 29.481" N	84°49' 39.310" E	43	23°46' 34.681" N	84°50' 10.889" E	81	23°46' 49.586" N	84°50' 38.043" E
6	23°46' 33.827" N	84°49' 37.793" E	44	23°46' 35.594" N	84°50' 15.829" E	82	23°46' 48.829" N	84°50' 39.306" E
7	23°46' 36.119" N	84°49' 32.527" E	45	23°46' 42.687" N	84°50' 15.189" E	83	23°46' 48.203" N	84°50' 43.979" E
8	23°46' 37.959" N	84°49' 34.170" E	46	23°46' 47.731" N	84°50' 17.688" E	84	23°46' 44.745" N	84°50' 44.187" E
9	23°46' 40.229" N	84°49' 35.117" E	47	23°46' 56.903" N	84°50' 19.422" E	85	23°46' 43.969" N	84°50' 46.015" E
10	23°46' 41.951" N	84°49' 37.285" E	48	23°46' 56.130" N	84°50' 22.884" E	86	23°46' 42.517" N	84°50' 49.153" E
11	23°46' 43.729" N	84°49' 37.372" E	49	23°46' 52.278" N	84°50' 23.554" E	87	23°46' 41.561" N	84°50' 49.344" E
12	23°46' 43.211" N	84°49' 41.241" E	50	23°46' 49.815" N	84°50' 25.032" E	88	23°46' 40.157" N	84°50' 50.299" E
13	23°46' 41.091" N	84°49' 41.193" E	51	23°46' 49.876" N	84°50' 26.818" E	89	23°46' 39.600" N	84°50' 51.617" E
14	23°46' 38.194" N	84°49' 50.086" E	52	23°46' 46.742" N	84°50' 28.385" E	90	23°46' 38.464" N	84°50' 51.854" E
15	23°46' 31.657" N	84°49' 49.654" E	53	23°46' 41.084" N	84°50' 31.351" E	91	23°46' 38.188" N	84°50' 53.418" E
16	23°46' 31.493" N	84°49' 52.305" E	54	23°46' 40.554" N	84°50' 31.383" E	92	23°46' 38.751" N	84°50' 54.227" E
17	23°46' 33.178" N	84°50' 0.517" E	55	23°46' 34.067" N	84°50' 36.338" E	93	23°46' 36.111" N	84°50' 55.762" E
18	23°46' 32.789" N	84°50' 5.155" E	56	23°46' 30.172" N	84°50' 44.285" E	94	23°46' 34.707" N	84°50' 57.329" E
19	23°46' 26.219" N	84°50' 6.834" E	57	23°46' 28.263" N	84°50' 48.958" E	95	23°46' 34.749" N	84°50' 58.231" E
20	23°46' 21.040" N	84°50' 6.731" E	58	23°46' 26.373" N	84°50' 55.507" E	96	23°46' 35.408" N	84°51' 0.272" E
21	23°46' 11.625" N	84°50' 2.118" E	59	23°46' 24.538" N	84°51' 0.319" E	97	23°46' 35.041" N	84°51' 1.824" E
22	23°46' 9.847" N	84°50' 1.609" E	60	23°46' 22.723" N	84°51' 4.974" E	98	23°46' 33.814" N	84°51' 4.486" E
23	23°46' 10.654" N	84°49' 59.004" E	61	23°46' 20.371" N	84°51' 7.335" E	99	23°46' 33.423" N	84°51' 3.481" E
24	23°46' 11.757" N	84°49' 58.520" E	62	23°46' 20.646" N	84°51' 4.298" E	100	23°46' 33.703" N	84°51' 3.829" E
25	23°46' 13.435" N	84°49' 57.092" E	63	23°46' 20.033" N	84°50' 58.694" E	101	23°46' 31.993" N	84°51' 5.299" E
26	23°46' 14.977" N	84°49' 50.112" E	64	23°46' 19.925" N	84°50' 51.460" E	102	23°46' 32.006" N	84°51' 6.684" E
27	23°46' 15.085" N	84°49' 45.501" E	65	23°46' 20.891" N	84°50' 46.276" E	103	23°46' 30.548" N	84°51' 6.632" E
28	23°46' 18.568" N	84°49' 39.537" E	66	23°46' 24.600" N	84°50' 40.023" E	104	23°46' 27.960" N	84°51' 3.977" E
29	23°46' 18.463" N	84°49' 34.182" E	67	23°46' 24.074" N	84°50' 32.828" E	105	23°46' 22.973" N	84°51' 4.827" E
30	23°46' 21.804" N	84°49' 29.848" E	68	23°46' 23.523" N	84°50' 30.527" E	106	23°46' 25.205" N	84°50' 59.505" E
31	23°46' 24.588" N	84°49' 30.712" E	69	23°46' 22.227" N	84°50' 27.855" E	107	23°46' 26.521" N	84°50' 55.993" E
32	23°46' 25.274" N	84°49' 34.165" E	70	23°46' 19.122" N	84°50' 23.983" E	108	23°46' 28.133" N	84°50' 49.713" E
33	23°46' 25.021" N	84°49' 35.866" E	71	23°46' 19.868" N	84°50' 23.252" E	109	23°46' 32.999" N	84°50' 39.241" E
34	23°46' 22.677" N	84°49' 36.639" E	72	23°46' 24.413" N	84°50' 23.396" E	110	23°46' 34.509" N	84°50' 36.285" E
35	23°46' 22.242" N	84°49' 37.558" E	73	23°46' 22.515" N	84°50' 15.310" E	111	23°46' 40.694" N	84°50' 31.499" E
36	23°46' 20.314" N	84°49' 36.624" E	74	23°46' 49.881" N	84°50' 26.913" E	112	23°46' 41.112" N	84°50' 31.449" E
37	23°46' 21.155" N	84°49' 43.137" E	75	23°46' 49.705" N	84°50' 28.764" E	113	23°46' 46.712" N	84°50' 28.514" E
38	23°46' 38.359" N	84°49' 41.255" E	76	23°46' 55.170" N	84°50' 29.542" E	114	23°46' 48.310" N	84°50' 27.207" E

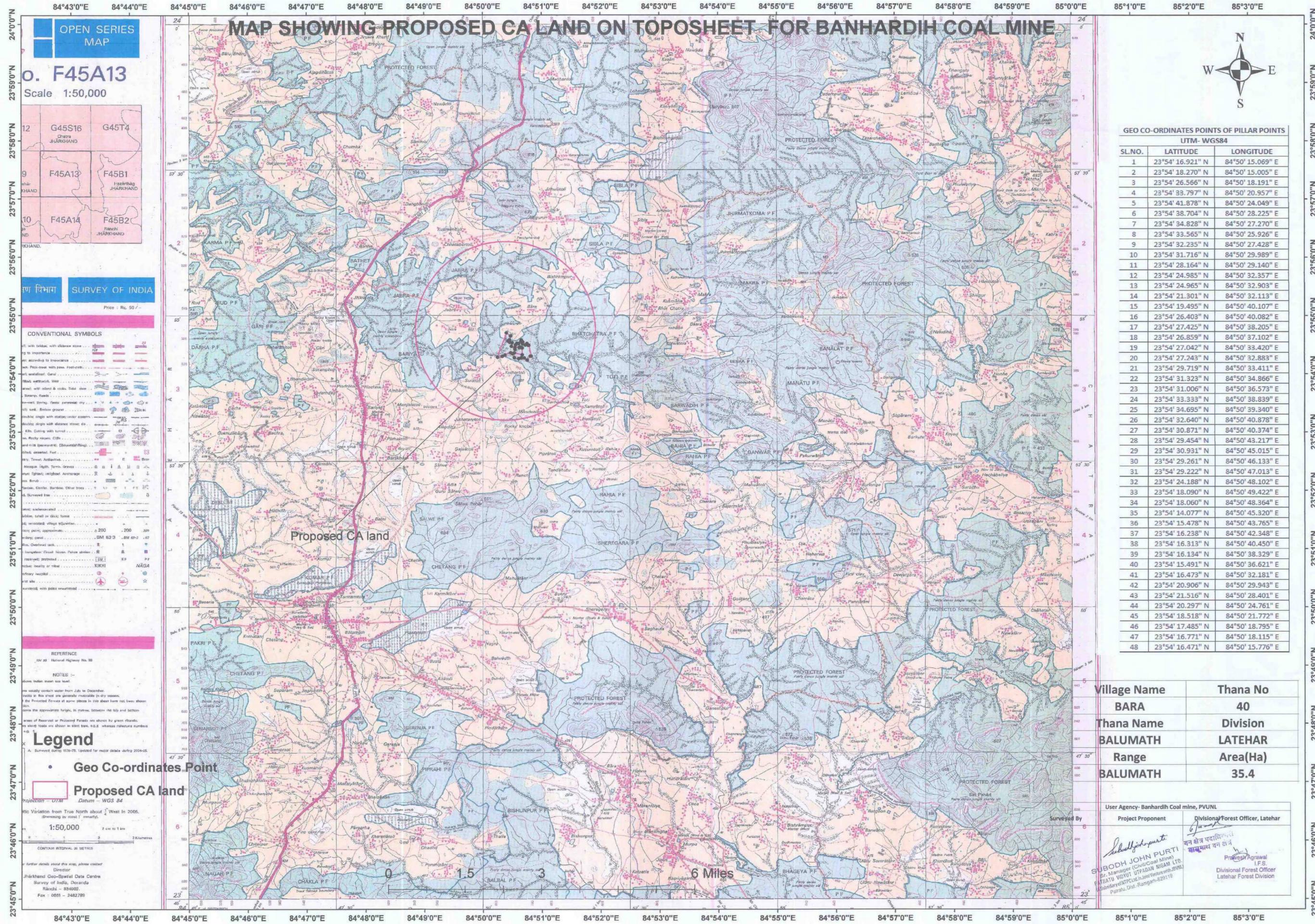
**User Agency- Banhardih Coal mine, PVUNL**

Surveyed By: *Subodh John Puri*  
Project Proponent: *Subodh John Puri*  
Divisional Forest Officer, Latehar

**SUBODH JOHN PURTI**  
Sr. Manager (Civil/Coal Mine)  
PATRAYAT VISHAY UPADAN NIGAM LTD.  
Khandyapuri, Ranchi - 834001

**Preshwar Singh**  
Divisional Forest Officer  
Latehar Forest Division





**OPEN SERIES MAP**  
**o. F45A13**  
 Scale 1:50,000

**CONVENTIONAL SYMBOLS**

**Legend**

- Geo Co-ordinates Point
- Proposed CA land

Price : Rs. 50/-

Survey of India

Director  
 Jharkhand Geo-Spatial Data Centre  
 Survey of India, Chandernagore  
 Ranchi - 834002  
 Fax : 0661 - 2482789

**GEO CO-ORDINATES POINTS OF PILLAR POINTS**  
 UTM- WGS84

SL.NO.	LATITUDE	LONGITUDE
1	23°54' 16.921" N	84°50' 15.069" E
2	23°54' 18.270" N	84°50' 15.005" E
3	23°54' 26.566" N	84°50' 18.191" E
4	23°54' 33.797" N	84°50' 20.957" E
5	23°54' 41.878" N	84°50' 24.049" E
6	23°54' 38.704" N	84°50' 28.225" E
7	23°54' 34.828" N	84°50' 27.270" E
8	23°54' 33.565" N	84°50' 25.926" E
9	23°54' 32.235" N	84°50' 27.428" E
10	23°54' 31.716" N	84°50' 29.989" E
11	23°54' 28.164" N	84°50' 29.140" E
12	23°54' 24.985" N	84°50' 32.357" E
13	23°54' 24.965" N	84°50' 32.903" E
14	23°54' 21.301" N	84°50' 32.113" E
15	23°54' 19.495" N	84°50' 40.107" E
16	23°54' 26.403" N	84°50' 40.082" E
17	23°54' 27.425" N	84°50' 38.205" E
18	23°54' 26.859" N	84°50' 37.102" E
19	23°54' 27.042" N	84°50' 33.420" E
20	23°54' 27.243" N	84°50' 32.883" E
21	23°54' 29.719" N	84°50' 33.411" E
22	23°54' 31.323" N	84°50' 34.866" E
23	23°54' 31.006" N	84°50' 36.573" E
24	23°54' 33.333" N	84°50' 38.839" E
25	23°54' 34.695" N	84°50' 39.340" E
26	23°54' 32.640" N	84°50' 40.878" E
27	23°54' 30.871" N	84°50' 40.374" E
28	23°54' 29.454" N	84°50' 43.217" E
29	23°54' 30.931" N	84°50' 45.015" E
30	23°54' 29.261" N	84°50' 46.133" E
31	23°54' 29.222" N	84°50' 47.013" E
32	23°54' 24.188" N	84°50' 48.102" E
33	23°54' 18.090" N	84°50' 49.422" E
34	23°54' 18.060" N	84°50' 48.364" E
35	23°54' 14.077" N	84°50' 45.320" E
36	23°54' 15.478" N	84°50' 43.765" E
37	23°54' 16.238" N	84°50' 42.348" E
38	23°54' 16.313" N	84°50' 40.450" E
39	23°54' 16.134" N	84°50' 38.329" E
40	23°54' 15.491" N	84°50' 36.621" E
41	23°54' 16.473" N	84°50' 32.181" E
42	23°54' 20.906" N	84°50' 29.943" E
43	23°54' 21.516" N	84°50' 28.401" E
44	23°54' 20.297" N	84°50' 24.761" E
45	23°54' 18.518" N	84°50' 21.772" E
46	23°54' 17.485" N	84°50' 18.795" E
47	23°54' 16.771" N	84°50' 18.115" E
48	23°54' 16.471" N	84°50' 15.776" E

<b>Village Name</b>	<b>Thana No</b>
BARA	40
<b>Thana Name</b>	<b>Division</b>
BALUMATH	LATEHAR
<b>Range</b>	<b>Area(Ha)</b>
BALUMATH	35.4

User Agency- Banhardih Coal mine, PVUNL

Project Proponent: *SUBODH JOHN PURTI*  
 Manager (Civil/Coal Mine)  
 BANRATU VIHATI (UTP/ADAN NIGAM LTD.)  
 Subsidary of IITPC Ltd. In Joint Venture with PVUNL  
 Patna/Dist. Ramgarh-823119

Divisional/Forest Officer, Latehar  
*Pravesh Agrawal*  
 I.F.S.  
 Divisional Forest Officer  
 Latehar Forest Division



84°42'0"E 84°43'0"E 84°44'0"E 84°45'0"E 84°46'0"E 84°47'0"E 84°48'0"E 84°49'0"E 84°50'0"E 84°51'0"E 84°52'0"E 84°53'0"E 84°54'0"E 84°55'0"E 84°56'0"E 84°57'0"E 84°58'0"E 84°59'0"E

**MAP SHOWING PROPOSED CA LAND ON TOPOSHEET FOR BANHARDIH COAL MINE**

**OPEN SERIES MAP**  
**No. F45A13**  
 Scale 1:50,000

भारतीय सर्वेक्षण विभाग SURVEY OF INDIA  
 1st Edition 2009 Price: Rs. 60/-

**CONVENTIONAL SYMBOLS**

**REFERENCE**  
 WGS 84 National Highway No. 99

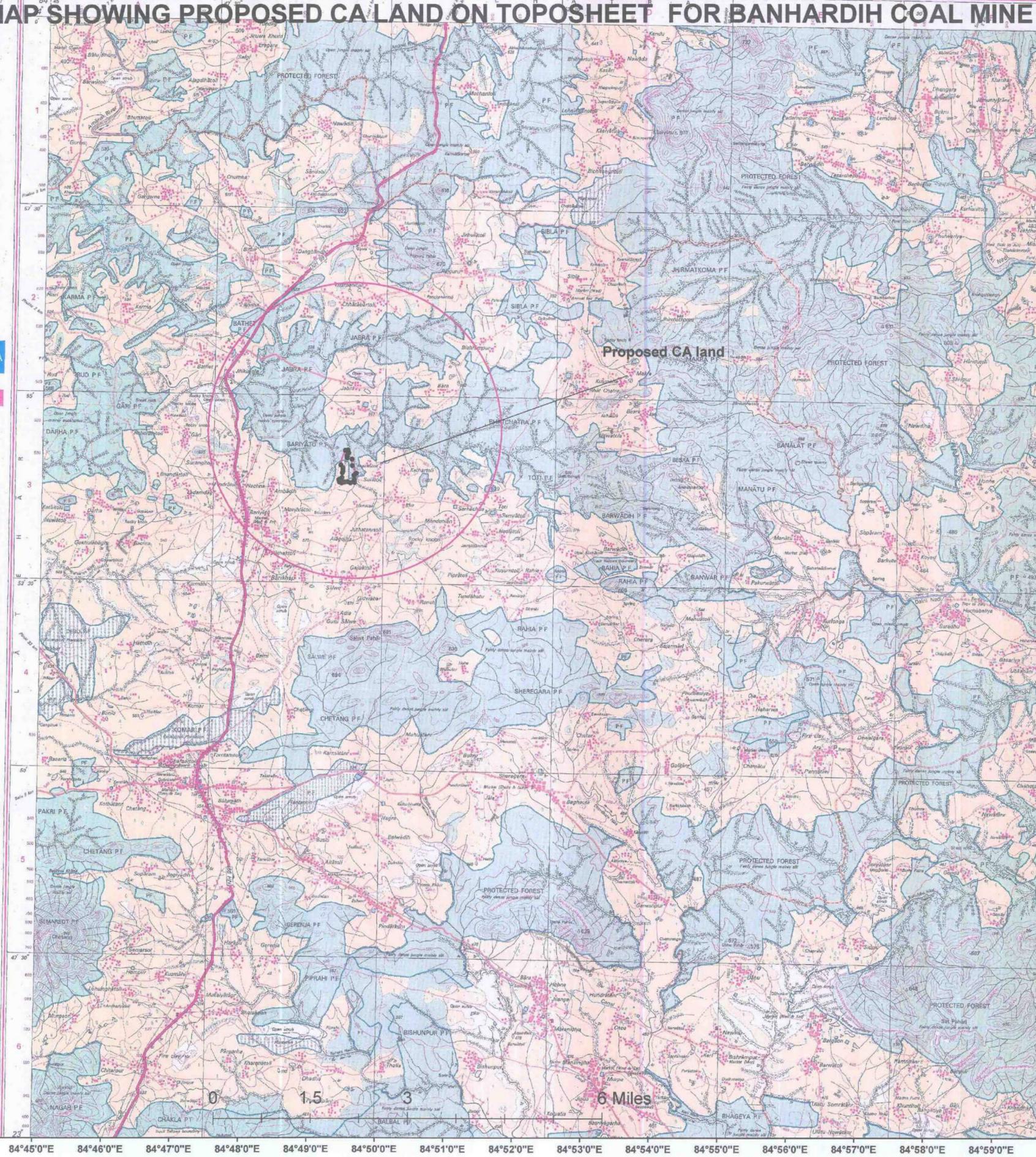
**NOTES**

**COMPILED INDEX**

**Legend**

Geo Co-ordinate Point  
 Datum - WGS 84  
 Magnetic Variation  
 1:50,000  
 CONTROLLER INTERVAL 25 METRES

For further details about this map, please contact  
 Director  
 Jharkhand Geo-Spatial Data Centre  
 Survey of India, Dorenda  
 Ranchi - 834002  
 Fax - 0661 - 2482/08



Village Name	Thana No
JABRA	35
Thana Name	Division
BALUMATH	LATEHAR
Range	Area(Ha)
BALUMATH	19.43

**GEO CO-ORDINATES POINTS OF PILLAR POINTS**  
 UTM- WGS84

SL.NO.	LATITUDE	LONGITUDE	SL.NO.	LATITUDE	LONGITUDE
1	23°53' 50.592" N	84°49' 19.924" E	29	23°54' 5.770" N	84°49' 30.807" E
2	23°53' 52.477" N	84°49' 19.696" E	30	23°54' 3.383" N	84°49' 31.319" E
3	23°53' 53.050" N	84°49' 20.096" E	31	23°53' 58.919" N	84°49' 33.733" E
4	23°53' 53.097" N	84°49' 21.565" E	32	23°53' 57.535" N	84°49' 34.814" E
5	23°53' 54.185" N	84°49' 22.410" E	33	23°53' 55.924" N	84°49' 32.874" E
6	23°53' 57.943" N	84°49' 22.756" E	34	23°53' 52.409" N	84°49' 33.472" E
7	23°53' 58.994" N	84°49' 23.406" E	35	23°53' 51.662" N	84°49' 34.281" E
8	23°53' 59.430" N	84°49' 23.225" E	36	23°53' 50.888" N	84°49' 34.305" E
9	23°53' 59.680" N	84°49' 22.660" E	37	23°53' 50.175" N	84°49' 33.470" E
10	23°53' 59.883" N	84°49' 23.145" E	38	23°53' 51.443" N	84°49' 32.924" E
11	23°54' 0.281" N	84°49' 23.286" E	39	23°53' 51.433" N	84°49' 32.233" E
12	23°54' 0.756" N	84°49' 22.866" E	40	23°53' 51.070" N	84°49' 31.865" E
13	23°54' 1.742" N	84°49' 23.259" E	41	23°53' 50.954" N	84°49' 30.947" E
14	23°54' 3.846" N	84°49' 21.316" E	42	23°53' 50.426" N	84°49' 30.589" E
15	23°54' 5.960" N	84°49' 21.578" E	43	23°53' 49.970" N	84°49' 29.837" E
16	23°54' 8.637" N	84°49' 21.943" E	44	23°53' 50.199" N	84°49' 29.010" E
17	23°54' 10.692" N	84°49' 23.093" E	45	23°53' 50.505" N	84°49' 28.780" E
18	23°54' 15.407" N	84°49' 24.888" E	46	23°53' 50.795" N	84°49' 27.587" E
19	23°54' 15.583" N	84°49' 27.483" E	47	23°53' 50.230" N	84°49' 26.343" E
20	23°54' 13.378" N	84°49' 28.042" E	48	23°53' 50.670" N	84°49' 25.857" E
21	23°54' 12.801" N	84°49' 28.535" E	49	23°53' 50.656" N	84°49' 25.304" E
22	23°54' 12.431" N	84°49' 28.210" E	50	23°53' 50.390" N	84°49' 25.001" E
23	23°54' 11.323" N	84°49' 26.489" E	51	23°53' 50.540" N	84°49' 24.438" E
24	23°54' 9.578" N	84°49' 26.821" E	52	23°53' 49.819" N	84°49' 24.053" E
25	23°54' 9.432" N	84°49' 28.866" E	53	23°53' 50.141" N	84°49' 23.965" E
26	23°54' 9.269" N	84°49' 29.755" E	54	23°53' 50.272" N	84°49' 22.953" E
27	23°54' 8.544" N	84°49' 31.019" E	55	23°53' 49.915" N	84°49' 22.165" E
28	23°54' 7.382" N	84°49' 31.341" E	56	23°53' 50.111" N	84°49' 20.912" E

User Agency- Banhardih Coal mine, PVUNL

Surveyed By	Project Proponent	Divisional Forest Officer, Latehar
	Subodh John Purti Sr. Manager (Civil/Coal Mine) PATRATU VIDYUT UTPADAN NIGAM LTD. (A Subsidiary of IITP Ltd., Patratu, Jharkhand, JORPML) Patratu, Dist., Rampurhat-829119	Prawesh Prasad I.F.S. Divisional Forest Officer Latehar Forest Division







**No. F45A14**

Scale 1:50,000

F45A9 (73A/9)	F45A13 (73A/13)	F45B1 (73E/1)
F45A10 (73A/10)	F45A14 (73A/14)	F45B2 (73E/2)
F45A11 (73A/11)	F45A15 (73A/15)	F45B3 (73E/3)

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**CONVENTIONAL SYMBOLS**

Highway with toll	...
Highway with distance stone	...
...	...

**REFERENCES**

Public Works Department, New 25 National Highway No. 25

**NOTES**

As in meters and above mean sea level, are approximate.

Water roads and cart-roads in this sheet are generally maintained in dry season, permanent boundaries of some Protected Forests have not been shown for want of establishment.

Longitudinal height and contour in this sheet have not been adjusted to the height of the datum used in the original survey and may not be exactly in accordance with them.

Boundaries in this sheet have been surveyed as shown by the local officials, but have not been verified by the Government authorities.

Because some numbers, dates, marks and railways are shown in local maps, e.g., of various kinds, the numbers are shown in upright type, e.g., 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100.

The height, as represented by the approximate height, in meters, between the top and bottom of a slope, is shown by a green triangle.

Major boundaries of areas of Reserved or Protected Forests are shown by green lines.

**LEGEND**

**Geo Co-ordinates Point**

**Proposed CA land**

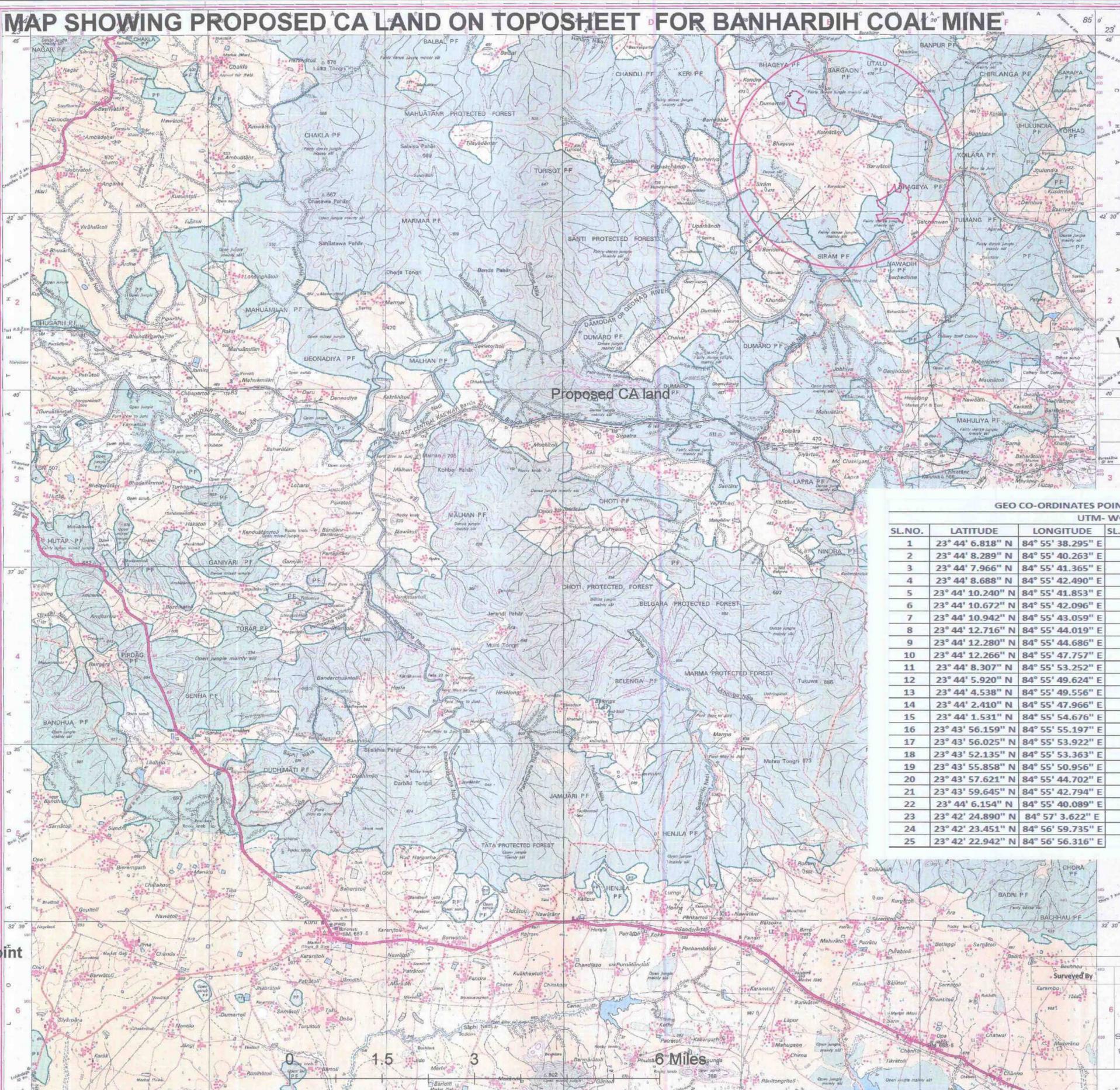
Magnetic Variation from True North about 1/4 West in 2005. (Decreasing by about 1/4 annually).

1:50,000

0 500 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

CONTOUR INTERVAL 20 METRES

For further details about this map, please contact:  
Director, Jharkhand Geo-Spatial Data Centre, Survey of India, Dorenda, Ranchi-834002, India. Phone: 2442330.



Village Name	Thana No
BHAGEA	231
Thana Name	Division
BALUMATH	LATEHAR
Range	Area(Ha)
CHANDWA	62.1

**GEO CO-ORDINATES POINTS OF PILLAR POINTS**

UTM- WGS84

SL.NO.	LATITUDE	LONGITUDE	SL.NO.	LATITUDE	LONGITUDE
1	23° 44' 6.818" N	84° 55' 38.295" E	26	23° 42' 27.579" N	84° 56' 54.303" E
2	23° 44' 8.289" N	84° 55' 40.263" E	27	23° 42' 28.364" N	84° 56' 59.709" E
3	23° 44' 7.966" N	84° 55' 41.365" E	28	23° 42' 32.402" N	84° 56' 59.813" E
4	23° 44' 8.688" N	84° 55' 42.490" E	29	23° 42' 35.098" N	84° 56' 56.055" E
5	23° 44' 10.240" N	84° 55' 41.853" E	30	23° 42' 39.810" N	84° 56' 54.801" E
6	23° 44' 10.672" N	84° 55' 42.096" E	31	23° 42' 40.257" N	84° 56' 57.480" E
7	23° 44' 10.942" N	84° 55' 43.059" E	32	23° 42' 44.605" N	84° 57' 4.761" E
8	23° 44' 12.716" N	84° 55' 44.019" E	33	23° 42' 46.793" N	84° 57' 4.334" E
9	23° 44' 12.280" N	84° 55' 44.686" E	34	23° 42' 47.210" N	84° 57' 5.925" E
10	23° 44' 12.266" N	84° 55' 47.757" E	35	23° 42' 53.095" N	84° 57' 9.901" E
11	23° 44' 8.307" N	84° 55' 53.252" E	36	23° 42' 47.520" N	84° 57' 10.732" E
12	23° 44' 5.920" N	84° 55' 49.624" E	37	23° 42' 46.793" N	84° 57' 14.819" E
13	23° 44' 4.538" N	84° 55' 49.556" E	38	23° 42' 51.104" N	84° 57' 15.646" E
14	23° 44' 2.410" N	84° 55' 47.966" E	39	23° 42' 54.529" N	84° 57' 13.984" E
15	23° 44' 1.531" N	84° 55' 54.676" E	40	23° 42' 53.351" N	84° 57' 17.549" E
16	23° 43' 56.159" N	84° 55' 55.197" E	41	23° 42' 51.130" N	84° 57' 20.038" E
17	23° 43' 56.025" N	84° 55' 53.922" E	42	23° 42' 48.549" N	84° 57' 21.898" E
18	23° 43' 52.135" N	84° 55' 53.363" E	43	23° 42' 46.768" N	84° 57' 20.405" E
19	23° 43' 55.858" N	84° 55' 50.956" E	44	23° 42' 41.525" N	84° 57' 22.041" E
20	23° 43' 57.621" N	84° 55' 44.702" E	45	23° 42' 37.216" N	84° 57' 21.529" E
21	23° 43' 59.645" N	84° 55' 42.794" E	46	23° 42' 28.057" N	84° 57' 17.841" E
22	23° 44' 6.154" N	84° 55' 40.089" E	47	23° 42' 25.276" N	84° 57' 17.941" E
23	23° 42' 24.890" N	84° 57' 3.622" E	48	23° 42' 20.846" N	84° 57' 16.365" E
24	23° 42' 23.451" N	84° 56' 59.735" E	49	23° 42' 24.416" N	84° 57' 12.434" E
25	23° 42' 22.942" N	84° 56' 56.316" E			

User Agency- Banhardih Coal mine, PVNIL

Surveyed By: *SUBODH JOHN PURTI*

Project Proponent: *Praveen Agrawal*

Divisional Forest Officer, Latehar

Director, Jharkhand Geo-Spatial Data Centre, Survey of India, Dorenda, Ranchi-834002, India. Phone: 2442330.



84°42'0"E 84°43'0"E 84°44'0"E 84°45'0"E 84°46'0"E 84°47'0"E 84°48'0"E 84°49'0"E 84°50'0"E 84°51'0"E 84°52'0"E 84°53'0"E 84°54'0"E 84°55'0"E 84°56'0"E 84°57'0"E 84°58'0"E 84°59'0"E 85°0'0"E 85°1'0"E 85°2'0"E 85°3'0"E

# MAP SHOWING PROPOSED CA LAND ON TOPOSHEET FOR BANHARDIH COAL MINE

निर्यात के लिए नहीं NOT FOR EXPORT  
**OPEN SERIES MAP**  
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 Scale 1:50,000

F45A9 (73A/9) Jharkhand  
 F45A13 (73A/13) Jharkhand  
 F45B1 (73E/1) Jharkhand  
 F45A10 (73A/10) Jharkhand  
 F45A14 (73A/14) Jharkhand  
 F45B2 (73C/2) Jharkhand  
 F45A11 (73A/11) Jharkhand  
 F45A15 (73A/15) Jharkhand  
 F45B3 (73E/3) Jharkhand

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 2009. Price: Rs. 50/-

CONVENTIONAL SYMBOLS

LEGEND

REFERENCES  
 NOTES

Geo Co-ordinates Point  
 UTM Datum - WGS 84  
 Magnetic Variation from True North about 1/4° West in 2005.  
 1:50,000  
 0 1.5 3 6 Miles



Village Name	Thana No
SIRAM	232
Thana Name	Division
BALUMATH	LATEHAR
Range	Area(Ha)
CHANDWA	83

SL.NO.	LATITUDE	LONGITUDE	SL.NO.	LATITUDE	LONGITUDE
1	23° 41' 37.103" N	84° 56' 21.165" E	58	23° 42' 0.204" N	84° 56' 32.813" E
2	23° 41' 40.064" N	84° 56' 19.650" E	59	23° 42' 0.100" N	84° 56' 33.183" E
3	23° 41' 41.584" N	84° 56' 17.171" E	60	23° 42' 0.600" N	84° 56' 35.320" E
4	23° 41' 42.888" N	84° 56' 18.231" E	61	23° 42' 0.600" N	84° 56' 35.320" E
5	23° 41' 43.561" N	84° 56' 16.637" E	62	23° 42' 0.862" N	84° 56' 35.400" E
6	23° 41' 42.678" N	84° 56' 15.834" E	63	23° 42' 0.700" N	84° 56' 35.635" E
7	23° 41' 43.458" N	84° 56' 14.904" E	64	23° 42' 0.486" N	84° 56' 35.504" E
8	23° 41' 44.209" N	84° 56' 15.484" E	65	23° 41' 58.573" N	84° 56' 38.949" E
9	23° 41' 45.878" N	84° 56' 13.513" E	66	23° 41' 58.734" N	84° 56' 39.062" E
10	23° 41' 46.117" N	84° 56' 13.849" E	67	23° 41' 58.534" N	84° 56' 39.372" E
11	23° 41' 46.507" N	84° 56' 13.221" E	68	23° 41' 58.357" N	84° 56' 39.266" E
12	23° 41' 46.239" N	84° 56' 12.819" E	69	23° 41' 58.473" N	84° 56' 39.200" E
13	23° 41' 47.051" N	84° 56' 11.395" E	70	23° 42' 10.428" N	84° 56' 2.835" E
14	23° 41' 48.365" N	84° 56' 11.159" E	71	23° 42' 9.201" N	84° 56' 0.647" E
15	23° 41' 51.639" N	84° 56' 10.915" E	72	23° 42' 7.695" N	84° 56' 0.188" E
16	23° 41' 54.012" N	84° 56' 10.114" E	73	23° 42' 7.425" N	84° 56' 2.035" E
17	23° 41' 58.855" N	84° 56' 9.995" E	74	23° 42' 7.012" N	84° 56' 2.527" E
18	23° 42' 1.922" N	84° 56' 11.174" E	75	23° 42' 5.917" N	84° 56' 2.393" E
19	23° 42' 3.843" N	84° 55' 59.006" E	76	23° 42' 5.125" N	84° 56' 2.820" E
20	23° 42' 6.678" N	84° 55' 57.607" E	77	23° 42' 4.069" N	84° 56' 2.727" E
21	23° 42' 7.270" N	84° 55' 55.458" E	78	23° 42' 2.965" N	84° 56' 3.989" E
22	23° 42' 4.640" N	84° 55' 53.987" E	79	23° 42' 3.834" N	84° 56' 4.102" E
23	23° 42' 3.434" N	84° 55' 49.345" E	80	23° 42' 3.902" N	84° 56' 5.271" E
24	23° 42' 9.288" N	84° 55' 49.537" E	81	23° 42' 1.648" N	84° 56' 7.430" E
25	23° 42' 9.427" N	84° 55' 53.866" E	82	23° 42' 1.935" N	84° 56' 10.332" E
26	23° 42' 11.070" N	84° 55' 54.216" E	83	23° 42' 1.956" N	84° 56' 11.317" E
27	23° 42' 12.850" N	84° 55' 56.488" E	84	23° 42' 2.838" N	84° 56' 16.001" E
28	23° 42' 12.186" N	84° 55' 57.526" E	85	23° 42' 1.653" N	84° 56' 18.657" E
29	23° 42' 11.026" N	84° 56' 2.073" E	86	23° 41' 59.904" N	84° 56' 20.508" E
30	23° 42' 9.887" N	84° 55' 59.944" E	87	23° 42' 1.350" N	84° 56' 24.203" E
31	23° 42' 7.314" N	84° 55' 59.881" E	88	23° 42' 2.168" N	84° 56' 21.708" E
32	23° 42' 6.927" N	84° 56' 2.807" E	89	23° 42' 2.875" N	84° 56' 24.580" E
33	23° 42' 5.211" N	84° 56' 2.132" E	90	23° 42' 2.305" N	84° 56' 26.753" E
34	23° 42' 2.670" N	84° 56' 3.671" E	91	23° 42' 2.932" N	84° 56' 27.002" E
35	23° 42' 3.498" N	84° 56' 4.545" E	92	23° 42' 3.875" N	84° 56' 26.287" E
36	23° 42' 1.466" N	84° 56' 6.507" E	93	23° 42' 4.094" N	84° 56' 26.454" E
37	23° 42' 1.429" N	84° 56' 9.489" E	94	23° 42' 5.245" N	84° 56' 26.052" E
38	23° 42' 1.594" N	84° 56' 13.723" E	95	23° 42' 5.956" N	84° 56' 24.801" E
39	23° 42' 2.365" N	84° 56' 15.835" E	96	23° 42' 7.382" N	84° 56' 23.283" E
40	23° 41' 59.314" N	84° 56' 20.575" E	97	23° 42' 7.470" N	84° 56' 23.332" E
41	23° 42' 1.185" N	84° 56' 24.959" E	98	23° 42' 9.643" N	84° 56' 21.763" E
42	23° 42' 2.345" N	84° 56' 24.485" E	99	23° 42' 9.721" N	84° 56' 20.384" E
43	23° 42' 1.254" N	84° 56' 27.985" E	100	23° 42' 10.993" N	84° 56' 20.599" E
44	23° 42' 0.716" N	84° 56' 31.527" E	101	23° 42' 12.125" N	84° 56' 19.148" E
45	23° 42' 1.499" N	84° 56' 37.158" E	102	23° 42' 10.273" N	84° 56' 18.156" E
46	23° 42' 2.757" N	84° 56' 41.549" E	103	23° 42' 10.457" N	84° 56' 17.074" E
47	23° 41' 59.408" N	84° 56' 44.862" E	104	23° 42' 11.558" N	84° 56' 15.883" E
48	23° 41' 53.509" N	84° 56' 39.797" E	105	23° 42' 12.793" N	84° 56' 16.624" E
49	23° 41' 47.922" N	84° 56' 34.748" E	106	23° 42' 14.460" N	84° 56' 14.946" E
50	23° 41' 45.747" N	84° 56' 33.331" E	107	23° 42' 16.728" N	84° 56' 15.773" E
51	23° 41' 41.979" N	84° 56' 31.722" E	108	23° 42' 18.128" N	84° 56' 14.761" E
52	23° 41' 39.577" N	84° 56' 29.120" E	109	23° 42' 20.507" N	84° 56' 15.847" E
53	23° 41' 52.868" N	84° 56' 35.135" E	110	23° 42' 21.281" N	84° 56' 14.532" E
54	23° 41' 53.051" N	84° 56' 34.740" E	111	23° 42' 18.459" N	84° 56' 13.452" E
55	23° 41' 53.803" N	84° 56' 34.890" E	112	23° 42' 21.214" N	84° 56' 7.736" E
56	23° 41' 53.051" N	84° 56' 35.293" E	113	23° 42' 17.311" N	84° 56' 2.434" E
57	23° 41' 59.838" N	84° 56' 32.746" E	114	23° 42' 14.938" N	84° 56' 4.078" E

Geo Co-ordinates Points of Pillar Points

Subodh John Puri  
 Sr. Manager (Coal Mine)  
 PATNARI VIDYUT UTRADAN NIGAM LTD.  
 (A Subsidiary of NTPCL as per Venture with IPPM)  
 Patnari, Dist.-Ranchi-821119

Prawas Agrawal  
 I.F.S.  
 Divisional Forest Officer  
 Latehar Forest Division