# KURLOI (A) NORTH COAL BLOCK

## PART A

| Sl. No | Features | Details |
|---|---|---|
| 1. | **Location** | |
| | Coal Block | **KURLOI (A) NORTH** |
| | Latitude | 21°47’58” - 21°50’21” N |
| | Longitude | 83°48’14” - 83°50’41” E |
| | Topo Sheet No. | F44 R13 (old SoI toposheet no 64 O/13) |
| | Coalfield | IB Valley |
| | Villages | Nuaparha, Khariaparha, Banjari, Jaiburia, Piplimal, Mahultikra (As per SOI Toposheet) |
| | District | Jharsuguda |
| | State | Odisha |
| 2. | **Connectivity with Block** | |
| | Nearest Rail Head | The nearest railway station is at a crow fly distance of less than 1 Km from the northern boundary of the block at Belpahar. |
| | Road | Jharsuguda, the district Headquarter is about 24 Km from the area and is connected by the Belpahar-Gandhichowk-Jharsuguda all weather road NH-216 (old No.NH-200). Jharsuguda is connected with Sambalpur-Rourkela by a state Highway No.10. |
| | Airport | Bhubneswar |
| 3. | **Area** | |
| | Geological Block Area | 9.63 sq.km. |
| | Forest Area | Approx. 5 % (as per FSI map) |
| | Non-Forest Area | Approx. 95 % (as per FSI map) |
| 4. | **Climate and Topography** | |
| | Average Annual Rainfall | 1519 mm |
| | Temperature (Min. — Max.) | 7.0°C-47.0°C |
| | Local Surface Drainage Channels | The easterly flowing seasonal Hinjankharu Jhor joins Lilari Nala at the centre of the block. Two more minor seasonal nalas joining the Lilari Nala also flows within the block. Lilari Nala ultimately joins Ib river in the southeast part of the coalfield. Apart from this, many small ponds are also seen within the block. |
| | Rivers | Hinjankharu Jhor and two more minor seasonal nalas joining the Lilari Nala flow within the block. |

| | | |
|---|---|---|
| **5.** | **Exploration** | |
| | Status | Explored |
| | Borehole Density | Approx. 7.06 Boreholes/sq.km. |
| | General Dip of Seams | Towards the south of the fault F-F, the dip changes to West. Towards the north of the fault F-F, the dip is found to be uniform towards NW with minor variations at places. The angle of dip varies from 2° to 5° with a gradient of 1 in 38 to 1 in 11.5. |
| | General Strike Direction | In the northern portion, the beds strike NE to SW direction with minor variations and when we move towards south i.e. towards the south of the fault (F-F), the strike changes almost to ENE to WSW to NE to SW trend. |

**6. Coal Seams & Reserve**

| Number of Coal Seams | Thickness Range (m) | Depth Range (m) | Geological Reserve (MT) | Grade |
|---|---|---|---|---|
| RANIGANJ 2 | 2.4-6.09 | 12.24-27.97 | 12.129 | G12-G15 |
| RANIGANJ 1 | 0.11-3.06 | 10.5-56.1 | 9.207 | G13-G17 |
| LOCAL 15 | 0.3-2.91 | 10.15-87.3 | 5.662 | G9-G17 |
| LOCAL 14 | 0.19-3.33 | 9.3-111.76 | 11.943 | G11-G17 |
| BELPAHAR TOP TOP | 0.51-3.67 | 36.7-129.97 | 6.677 | G11-G16 |
| BELPAHAR TOP BOT | 0.52-2.32 | 39.42-132.18 | 5.468 | G11-G17 |
| BELPAHAR TOP COMB | 1.34-6.25 | 17.93-133.49 | 34.496 | G9-G17 |
| BELPAHAR BOT | 1.09-8.2 | 16.75-142.33 | 72.735 | G10-G17 |
| LOCAL 13 | 0.34-3.15 | 33.89-163.38 | 20.142 | G9-G17 |
| LOCAL 12 | 0.21-3.34 | 79.06-206.53 | 18.334 | G11-G17 |
| LOCAL 11 | 0.27-5.51 | 89.37-217.98 | 22.704 | G12-G17 |
| LOCAL 10 | 0.51-6.03 | 102.22-230.18 | 30.937 | G12-G17 |
| LOCAL 09 | 0.36-1.84 | 111.39-251.19 | 15.631 | G9-G17 |
| PARKHANI TOP TOP | 0.53-4.03 | 132.55-265.18 | 13.615 | G15-G17 |
| PARKHANI TOP BOT | 0.88-4.16 | 136.57-268.52 | 15.582 | G11-G17 |
| PARKHANI TOP COMB | 0.85-7.01 | 129.07-273.15 | 45.378 | G13-G17 |
| PARKHANI BOT | 0.69-7.21 | 139.78-288.31 | 56.369 | G12-G17 |
| LOCAL 07 | 0.81-3.29 | 147.3-294.29 | 26.986 | G7-G17 |
| LAJKURA TOP TOP | 0.65-2.18 | 192.49-363.73 | 7.844 | G7-G15 |
| LAJKURA TOP MID | 1.67-9.09 | 202.64-374.23 | 78.524 | G9-G16 |
| LAJKURA TOP BOT | 0.1-6.03 | 215.66-386.39 | 39.1 | G8-G16 |
| LAJKURA MID TOP | 0.44-4.66 | 267.46-406.6 | 15.341 | G7-G17 |
| LAJKURA MID MID | 3.18-6.67 | 353.54-409.36 | 14.04 | G9-G15 |
| LAJKURA MID BOT | 8.84-25.9 | 376.12-436.15 | 65.873 | G9-G13 |
| LAJKURA MID (MID+BOT) | 22.75-29.58 | 295.85-433.34 | 179.72 | G10-G13 |
| LAJKURA MID COMB | 24.73-31.18 | 293.86-403.1 | 113.321 | G10-G13 |
| LAJKURA BOT TOP | 0.71-6.05 | 305.67-423.81 | 19.492 | G13-G17 |
| LAJKURA BOT BOT | 2.78-10.91 | 316.56-430.49 | 37.088 | G9-G17 |
| LAJKURA BOT | 6.41-15.05 | 312.58-447.44 | 117.14 | G11-G15 |
| LOCAL O | 0.11-1.62 | 322.62-485.26 | 4.933 | G13-G17 |
| RAMPUR TOP TOP | 0.32-2.16 | 354.07-499.53 | 10.227 | G12-G17 |
| RAMPUR TOP MID | 0.43-6.75 | 358.39-504.89 | 34.346 | G11-G17 |

| | Number of Coal Seams | Thickness Range (m) | Depth Range (m) | Geological Reserve (MT) | Grade |
|---|---|---|---|---|---|
| | RAMPUR TOP BOT | 0.23-3.19 | 362.94-507.84 | 14.233 | G10-G17 |
| | RAMPUR MID TOP TOP | 1.1-10.98 | 374.58-514.96 | 54.193 | G11-G16 |
| | RAMPUR MID TOP BOT | 0.59-6.27 | 378.67-517.34 | 23.89 | G9-G17 |
| | RAMPUR MID TOP COMB | 2.32-11.71 | 374.55-517.44 | 40.169 | G11-G16 |
| | RAMPUR MID MID | 0.2-10.41 | 412.78-530.14 | 33.391 | G10-G16 |
| | RAMPUR MID BOT COMB | 5.09-15.61 | 422.96-555.85 | 73.936 | G11-G16 |
| | RAMPUR MID (MID+BOT) | 11.88-22.38 | 391.04-522.69 | 122.209 | G12-G16 |
| | RAMPUR BOT TOP | 1.32-12.08 | 402.76-560.52 | 22.164 | G9-G15 |
| | RAMPUR BOT BOT | 1.14-5.62 | 405.45-568.8 | 7.013 | G7-G17 |
| | RAMPUR BOT COMB | 3.83-11.54 | 401.08-565.2 | 95.01 | G9-G14 |
| | IB TOP | 0.27-2.83 | 422.69-600 | 12.082 | G4-G15 |
| | IB MID | 0.15-3.12 | 431.22-614.6 | 11.309 | G4-G16 |
| | IB BOT | 0.05-2.47 | 441.3-610.55 | 9.643 | G3-G13 |
| | | | **Total** | **1680.226** | |
| **7.** | **Surface Constraints** | NA | | | |

**PART B**

| **Sr. No.** | **Features** | **Details** |
|---|---|---|
| **1.** | **Mining Plan** | Not prepared |
| **2.** | **Tentative Peak Rated Mine Capacity** | **8.0 MTY** |

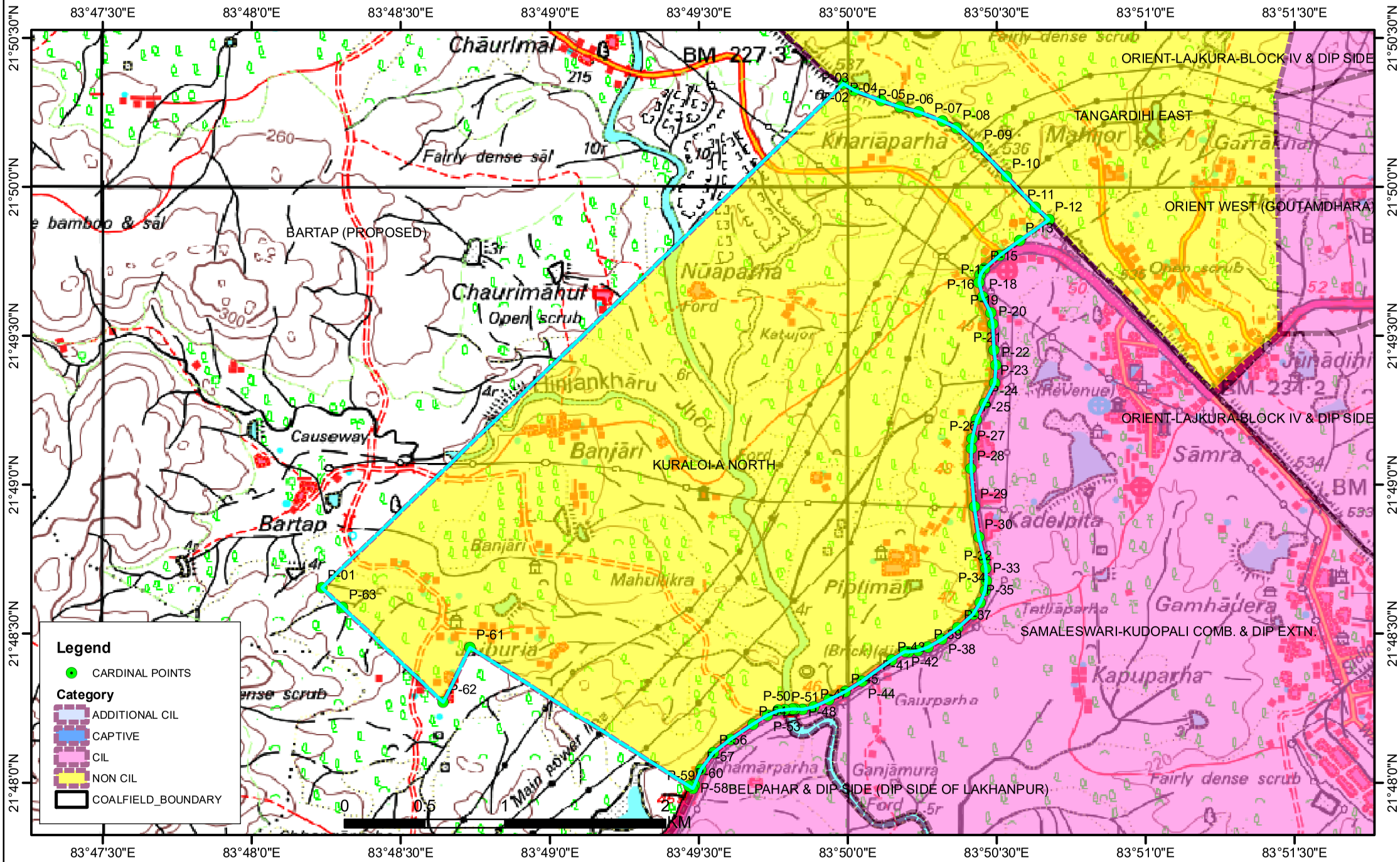
Note:

1. The above data in Part-A is compiled from Geological Report.

2. The boundary of the block has been taken from GR after conversion to WGS84 system by feature matching. The block boundary is provisional and the cardinal points, bounding co-ordinates are approximate.

3. There is a difference in area in the shape file and GR. Area in the shape file is based on feature mapped plan of the block as given in the GR. So, the area is tentative and field DGPS survey is required to ascertain the exact area.

# KURALOI (A) NORTH




NOTE: Coordinates are approximate in WGS84 System

## Co-ordinates (in WGS 84 System) of cardinal points of Kurloi (A) North Coal Block

| Sl. No. | Point ID | Longitude | Latitude |
|---|---|---|---|
| 1 | P-01 | 83° 48' 14.071" E | 21° 48' 39.239" N |
| 2 | P-02 | 83° 49' 59.100" E | 21° 50' 20.743" N |
| 3 | P-03 | 83° 50' 1.349" E | 21° 50' 19.365" N |
| 4 | P-04 | 83° 50' 6.612" E | 21° 50' 17.358" N |
| 5 | P-05 | 83° 50' 10.480" E | 21° 50' 16.072" N |
| 6 | P-06 | 83° 50' 14.244" E | 21° 50' 15.094" N |
| 7 | P-07 | 83° 50' 19.114" E | 21° 50' 13.241" N |
| 8 | P-08 | 83° 50' 21.929" E | 21° 50' 11.900" N |
| 9 | P-09 | 83° 50' 26.306" E | 21° 50' 7.930" N |
| 10 | P-10 | 83° 50' 31.956" E | 21° 50' 2.100" N |
| 11 | P-11 | 83° 50' 37.824" E | 21° 49' 55.859" N |
| 12 | P-12 | 83° 50' 40.536" E | 21° 49' 53.330" N |
| 13 | P-13 | 83° 50' 34.627" E | 21° 49' 49.194" N |
| 14 | P-14 | 83° 50' 30.598" E | 21° 49' 46.161" N |
| 15 | P-15 | 83° 50' 27.510" E | 21° 49' 43.542" N |
| 16 | P-16 | 83° 50' 26.693" E | 21° 49' 42.234" N |
| 17 | P-17 | 83° 50' 26.477" E | 21° 49' 40.788" N |
| 18 | P-18 | 83° 50' 27.220" E | 21° 49' 37.827" N |
| 19 | P-19 | 83° 50' 28.765" E | 21° 49' 34.594" N |
| 20 | P-20 | 83° 50' 29.212" E | 21° 49' 32.322" N |
| 21 | P-21 | 83° 50' 29.445" E | 21° 49' 27.090" N |
| 22 | P-22 | 83° 50' 29.814" E | 21° 49' 24.130" N |
| 23 | P-23 | 83° 50' 29.600" E | 21° 49' 20.481" N |
| 24 | P-24 | 83° 50' 27.541" E | 21° 49' 16.349" N |
| 25 | P-25 | 83° 50' 25.995" E | 21° 49' 13.111" N |
| 26 | P-26 | 83° 50' 25.111" E | 21° 49' 9.256" N |
| 27 | P-27 | 83° 50' 24.896" E | 21° 49' 7.259" N |
| 28 | P-28 | 83° 50' 24.822" E | 21° 49' 3.265" N |
| 29 | P-29 | 83° 50' 25.493" E | 21° 48' 55.555" N |
| 30 | P-30 | 83° 50' 26.388" E | 21° 48' 49.429" N |
| 31 | P-31 | 83° 50' 27.499" E | 21° 48' 44.956" N |
| 32 | P-32 | 83° 50' 27.867" E | 21° 48' 43.096" N |
| 33 | P-33 | 83° 50' 27.949" E | 21° 48' 40.618" N |
| 34 | P-34 | 83° 50' 27.655" E | 21° 48' 38.622" N |
| 35 | P-35 | 83° 50' 26.700" E | 21° 48' 36.212" N |
| 36 | P-36 | 83° 50' 25.231" E | 21° 48' 33.869" N |
| 37 | P-37 | 83° 50' 22.134" E | 21° 48' 31.113" N |
| 38 | P-38 | 83° 50' 19.037" E | 21° 48' 28.837" N |
| 39 | P-39 | 83° 50' 16.166" E | 21° 48' 27.251" N |

| Sl. No. | Point ID | Longitude | Latitude |
|---|---|---|---|
| 40 | P-40 | 83° 50' 14.181" E | 21° 48' 26.490" N |
| 41 | P-41 | 83° 50' 12.257" E | 21° 48' 26.283" N |
| 42 | P-42 | 83° 50' 11.526" E | 21° 48' 26.351" N |
| 43 | P-43 | 83° 50' 8.802" E | 21° 48' 24.696" N |
| 44 | P-44 | 83° 50' 2.834" E | 21° 48' 20.421" N |
| 45 | P-45 | 83° 49' 59.441" E | 21° 48' 18.283" N |
| 46 | P-46 | 83° 49' 56.204" E | 21° 48' 16.629" N |
| 47 | P-47 | 83° 49' 53.184" E | 21° 48' 15.247" N |
| 48 | P-48 | 83° 49' 50.895" E | 21° 48' 14.763" N |
| 49 | P-49 | 83° 49' 49.414" E | 21° 48' 14.788" N |
| 50 | P-50 | 83° 49' 48.831" E | 21° 48' 14.799" N |
| 51 | P-51 | 83° 49' 47.395" E | 21° 48' 14.658" N |
| 52 | P-52 | 83° 49' 46.028" E | 21° 48' 14.522" N |
| 53 | P-53 | 83° 49' 43.748" E | 21° 48' 13.487" N |
| 54 | P-54 | 83° 49' 40.877" E | 21° 48' 11.693" N |
| 55 | P-55 | 83° 49' 36.309" E | 21° 48' 8.659" N |
| 56 | P-56 | 83° 49' 32.917" E | 21° 48' 5.970" N |
| 57 | P-57 | 83° 49' 30.414" E | 21° 48' 2.595" N |
| 58 | P-58 | 83° 49' 29.094" E | 21° 47' 59.426" N |
| 59 | P-59 | 83° 49' 28.833" E | 21° 47' 58.798" N |
| 60 | P-60 | 83° 49' 28.102" E | 21° 47' 59.264" N |
| 61 | P-61 | 83° 48' 43.963" E | 21° 48' 27.193" N |
| 62 | P-62 | 83° 48' 38.527" E | 21° 48' 16.168" N |
| 63 | P-63 | 83° 48' 18.291" E | 21° 48' 35.248" N |