

**BASANTPUR BLOCK SUMMARY
PART A**

Sr. No	Features	Details
1. Location		
	Coal Block	Basantpur
	Latitude	23° 49' 03" N - 23° 49' 38" N (Provisional)
	Longitude	85° 32' 46" E- 85° 33' 20" E (Provisional)
	Topo Sheet No.	73E/9, F45B5
	Coalfield	West Bokaro Coalfield
	Villages	Basantpur, Barisam, Rauta, Durukasmar
	Tehsil/Taluka	Mandu
	District	Ramgarh
	State	Jharkhand
2. Connectivity with Block		
	Nearest Rail Head	The Danae railway station on the Gomoh-Barkakana loop of Eastern Railway is located on the eastern part of the area.
	Road	The area upto the southern bank of the Chutua Nadi is connected by 10 km. long fair weather road from Parej village which, in turn, branches off from National Highway Mo. 33 at Charhi. The Highway connects Ranchi with Hazaribagh. The area is about 25 km. from Charhi. The area under reference is connected further at a point near Kuju to the National Highway No. 33 by Kedla-Gidi Washery road. The Chutua nala is about 15 km. from Kuju on this road. The Chutua nala can be crossed at a few points during the summer days only and remains non-negotiable during the rainy season. Within the area i.e. north of Chutua nala, communication is extremely poor and mostly it can be negotiated on foot only.
	Airport	The nearest airport is at Ranchi, the state capital, situated at about 110Km. Gomia Air Strip owned by the Indian Explosive Limited is located near the block.
3. Area		
	Geological Block Area	0.75 sq.km.
	Forest Area	Approx. 2% (As per FSI Map)
	Non-Forest Area	Approx. 98%
4. Climate and Topography		
	Average Annual Rainfall	120 cm - 135 cm
	Temperature (Min. — Max.)	5°C - 46°C
	Local Surface Drainage Channels	Chutua Nadi, a tributary of Bokaro River, is flowing N-S in the eastern boundary.
	Rivers	Chutua Nadi

5.	Exploration				
	Status	Regionally explored			
	Exploration Agency	GSI, CMPDIL			
	Total Number of Boreholes with meterage	GSI: 1 BH, 490.1m (WBPJ-31) CMDPI: 4 BHs (492.6m) (CMB-4,11,14 & 17) Total: 5 BHs, 982.7m			
	Borehole Density	Approx. 6 BH/Sq. Km.			
	General Dip of Seams	Because of the highly disturbed nature of the area and proximity to the boundary fault the dip of the sedimentary strata is fairly high varying between 15° to 20° and near the faults the dips increases considerably, often to 40° to 60°.			
	General Strike Direction	E-W to NW-SE			
6.	Coal Seams & Reserve				
	Coal Seams	Thickness Range (m)	Depth Range (m)	Tentative Geological Reserve (MT)	Grade
	RVI	1	41.50-42.50		
	RV	2.15	70.35-72.50		G7
	RIV	1.7	91.30-93.00		G12
	RIII	2.27	109.43-112.20		G13
	RII	1.38	135.30-136.68		G4
	RI	0.59	143.40-143.99		
		Total		9.0	G10
7.	Surface Constraints				
	-				
8.	Grade of coal block				
	G10 (Provisional), Based on seam overall data of WBPJ-31 borehole only.				
9.	Decision Support System (DSS) Analysis				
	Hydrology info: Polygon touches Chutua Nadi				
10.	Eco Sensitive Zone (ESZ)				
	Approx. 27 kms to ESZ (Hazaribagh) in North direction.				

Note:

1. The information is primarily based on "Report on Regional Exploration for Coal in Parej West Block, West Bokaro Coalfield, Hazaribagh District, Bihar; July-1981." by GSI. & 4 Boreholes drilled by CMPDI falling within this block.
2. Only 6 coal seams, RVI to RI of Raniganj Formation are encountered in borehole WBPJ-31 which was closed at 490m depth without intersecting any coal seam of Barakar Formation.
3. Out of the four BHs drilled by CMPDI (CMB-4, 11, 14 & 17) – BH CMB-4 closed at 109m depth in Barren Measure Formation without intersecting any coal seam, BH CMB-11, 14 & 17 were suspended/abandoned at 119m, 120m & 144m respectively intersecting uncorrelated coal seams of Raniganj Formation ranging in thickness from 0.50m to 3.10m.
4. Coal quality data (Ash and Moisture) of only BH WBPJ-31 is available
5. As per the referred GSI report on RE for coal in Parej West (July 1981) para 'Coal Analyses' (at page 4) 'The data regarding coke type, Caking Index, washability characteristics etc. have not been provided by CFRI so far' and thus not available in the report.
6. As per available data of coal seam of Raniganj Formation in WBPJ-31 Moisture content is high (3.8 to 5.3) and thus grade of coal has been arrived as Non-coking after calculation of GCV
7. Average grade is estimated from the seam overall data of coal seams of Raniganj Formation encountered in WBPJ-31 borehole drilled by GSI.
8. Coal seams of Barakar Formation occurring below the Raniganj and Barren Measure Formations are coking in nature as per quality data available for BH CMB-12, 16, 26, 29, 32 & 34 and WBKB-1, 10 & 12 falling in Basantpur block (Reference GR on Basantpur-Kotre block, CMPDI (Feb.1997) and Report on RE for coal in Kotre-Basantpur-Dania and Adjoining area, GSI (March 1985).

Disclaimer:

1. The analysis is done on Beta-version (Trial Version) of Decision Support System (DSS) of FSI/ MOEF.
2. The Decision Rules for various parameters of this DSS System are controlled by FSI.
3. CMPDI only runs this DSS to obtain the status of any block based on these Decision Rules.
4. The database of the Decision Rules is updated by FSI from time to time.
5. CMPDI does not own any responsibility for variation in the results which are based on the decision Rules of the FSI DSS in case of any update of the database at FSI end.
6. ESZ analysis and tiger habitat/ corridor given here is based on the information available in public domain. Bidders are encouraged to verify this information and any other information additionally available.

Basantpur Block, West Bokaro Coalfield

FOR INTERNAL/RESTRICTED USE ONLY

85°32'30"E

85°33'0"E

85°33'30"E

85°33'30"E

23°49'30"N

23°49'0"N

23°49'30"N

23°49'0"N

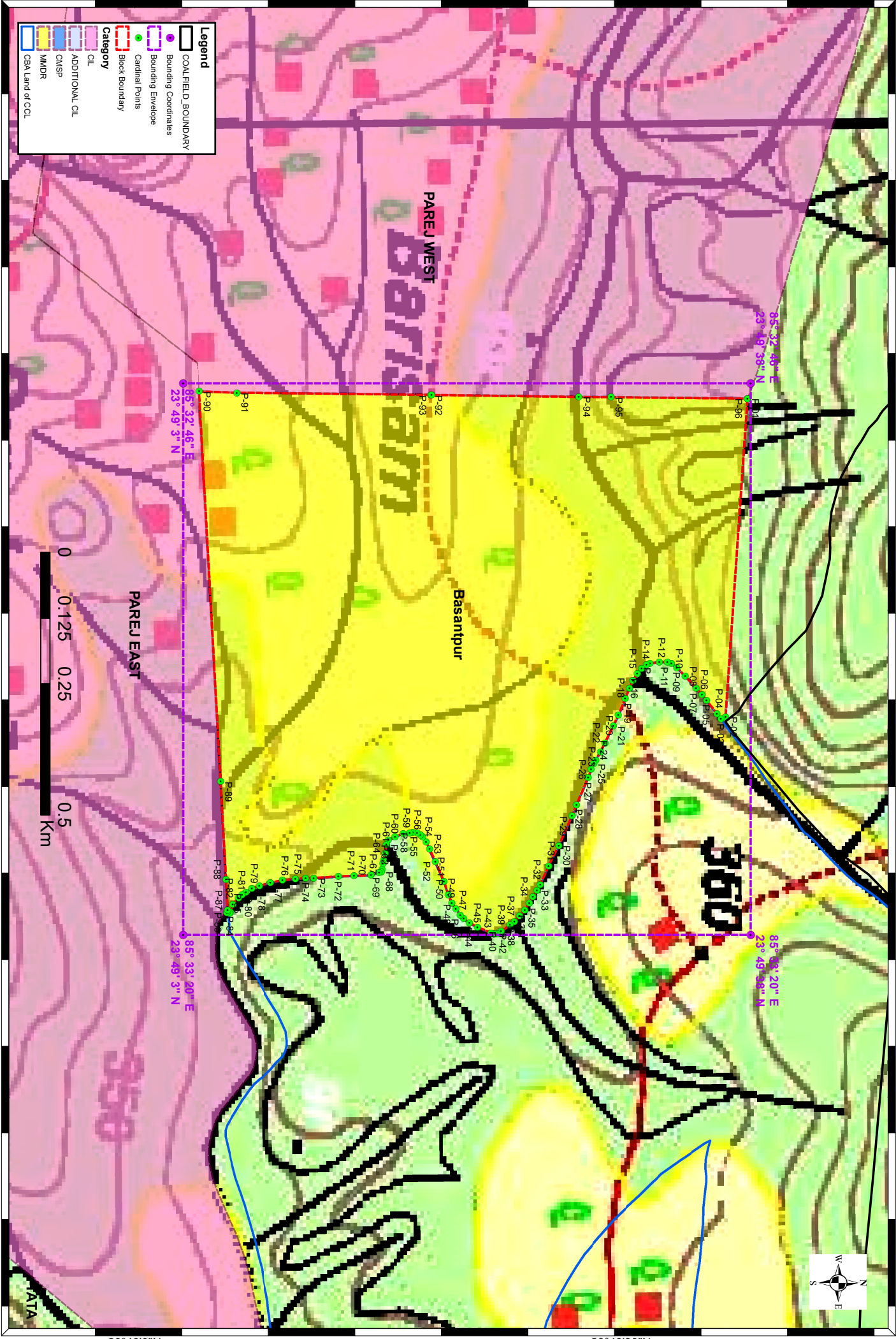


Legend

- COAL FIELD BOUNDARY
- Bounding Coordinates
- Bounding Envelope
- Cardinal Points
- Block Boundary

Category

- CIL
- ADDITIONAL CIL
- CMSP
- M/DR
- CBALand of CCL



Note: Coordinates are in WGS84 system.

**Provisional Co-ordinates of Cardinal Points (in WGS84) of
Basantpur Block (Revised Boundary),
West Bokaro Coalfield**

PointsID	Longitude	Latitude
P-01	85° 32' 46.939" E	23° 49' 37.795" N
P-02	85° 33' 6.566" E	23° 49' 36.447" N
P-03	85° 33' 6.686" E	23° 49' 36.161" N
P-04	85° 33' 6.348" E	23° 49' 35.903" N
P-05	85° 33' 5.526" E	23° 49' 35.260" N
P-06	85° 33' 5.175" E	23° 49' 34.984" N
P-07	85° 33' 4.800" E	23° 49' 34.637" N
P-08	85° 33' 4.052" E	23° 49' 33.954" N
P-09	85° 33' 3.523" E	23° 49' 33.429" N
P-10	85° 33' 3.268" E	23° 49' 33.091" N
P-11	85° 33' 3.178" E	23° 49' 32.850" N
P-12	85° 33' 3.183" E	23° 49' 32.357" N
P-13	85° 33' 3.253" E	23° 49' 31.783" N
P-14	85° 33' 3.328" E	23° 49' 31.560" N
P-15	85° 33' 3.565" E	23° 49' 31.266" N
P-16	85° 33' 3.900" E	23° 49' 31.005" N
P-17	85° 33' 4.326" E	23° 49' 30.734" N
P-18	85° 33' 4.783" E	23° 49' 30.527" N
P-19	85° 33' 5.434" E	23° 49' 30.254" N
P-20	85° 33' 6.461" E	23° 49' 29.818" N
P-21	85° 33' 7.129" E	23° 49' 29.515" N
P-22	85° 33' 8.158" E	23° 49' 28.998" N
P-23	85° 33' 8.715" E	23° 49' 28.735" N
P-24	85° 33' 9.243" E	23° 49' 28.440" N
P-25	85° 33' 9.453" E	23° 49' 28.317" N
P-26	85° 33' 9.806" E	23° 49' 28.154" N
P-27	85° 33' 10.294" E	23° 49' 27.973" N
P-28	85° 33' 11.972" E	23° 49' 27.247" N
P-29	85° 33' 12.658" E	23° 49' 26.975" N
P-30	85° 33' 14.492" E	23° 49' 26.161" N
P-31	85° 33' 15.738" E	23° 49' 25.537" N
P-32	85° 33' 16.889" E	23° 49' 25.012" N
P-33	85° 33' 17.262" E	23° 49' 24.807" N
P-34	85° 33' 17.661" E	23° 49' 24.560" N
P-35	85° 33' 18.030" E	23° 49' 24.347" N
P-36	85° 33' 18.469" E	23° 49' 24.052" N
P-37	85° 33' 18.839" E	23° 49' 23.740" N
P-38	85° 33' 19.155" E	23° 49' 23.419" N
P-39	85° 33' 19.390" E	23° 49' 23.144" N
P-40	85° 33' 19.788" E	23° 49' 22.607" N
P-41	85° 33' 19.906" E	23° 49' 22.373" N
P-42	85° 33' 19.922" E	23° 49' 22.214" N
P-43	85° 33' 19.870" E	23° 49' 21.986" N
P-44	85° 33' 19.514" E	23° 49' 21.141" N
P-45	85° 33' 19.242" E	23° 49' 20.644" N
P-46	85° 33' 19.007" E	23° 49' 20.295" N

**Provisional Co-ordinates of Cardinal Points (in WGS84) of
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PointsID	Longitude	Latitude
P-47	85° 33' 18.761" E	23° 49' 20.074" N
P-48	85° 33' 18.399" E	23° 49' 19.801" N
P-49	85° 33' 18.026" E	23° 49' 19.560" N
P-50	85° 33' 17.514" E	23° 49' 19.342" N
P-51	85° 33' 16.711" E	23° 49' 19.083" N
P-52	85° 33' 15.470" E	23° 49' 18.551" N
P-53	85° 33' 14.692" E	23° 49' 18.183" N
P-54	85° 33' 14.245" E	23° 49' 17.976" N
P-55	85° 33' 13.943" E	23° 49' 17.763" N
P-56	85° 33' 13.818" E	23° 49' 17.638" N
P-57	85° 33' 13.741" E	23° 49' 17.427" N
P-58	85° 33' 13.679" E	23° 49' 17.161" N
P-59	85° 33' 13.697" E	23° 49' 16.959" N
P-60	85° 33' 13.744" E	23° 49' 16.575" N
P-61	85° 33' 13.960" E	23° 49' 16.049" N
P-62	85° 33' 14.144" E	23° 49' 15.635" N
P-63	85° 33' 14.417" E	23° 49' 15.523" N
P-64	85° 33' 14.967" E	23° 49' 15.457" N
P-65	85° 33' 15.397" E	23° 49' 15.343" N
P-66	85° 33' 15.627" E	23° 49' 15.300" N
P-67	85° 33' 15.939" E	23° 49' 15.256" N
P-68	85° 33' 16.095" E	23° 49' 15.213" N
P-69	85° 33' 16.175" E	23° 49' 15.076" N
P-70	85° 33' 16.311" E	23° 49' 14.568" N
P-71	85° 33' 16.352" E	23° 49' 13.533" N
P-72	85° 33' 16.400" E	23° 49' 12.568" N
P-73	85° 33' 16.490" E	23° 49' 11.031" N
P-74	85° 33' 16.495" E	23° 49' 10.543" N
P-75	85° 33' 16.540" E	23° 49' 9.913" N
P-76	85° 33' 16.629" E	23° 49' 9.109" N
P-77	85° 33' 16.786" E	23° 49' 8.367" N
P-78	85° 33' 16.968" E	23° 49' 7.690" N
P-79	85° 33' 17.136" E	23° 49' 7.222" N
P-80	85° 33' 17.359" E	23° 49' 6.851" N
P-81	85° 33' 17.546" E	23° 49' 6.627" N
P-82	85° 33' 17.730" E	23° 49' 6.383" N
P-83	85° 33' 18.127" E	23° 49' 6.055" N
P-84	85° 33' 18.575" E	23° 49' 5.894" N
P-85	85° 33' 18.686" E	23° 49' 5.863" N
P-86	85° 33' 18.634" E	23° 49' 5.683" N
P-87	85° 33' 18.464" E	23° 49' 5.734" N
P-88	85° 33' 16.598" E	23° 49' 5.632" N
P-89	85° 33' 10.542" E	23° 49' 5.297" N
P-90	85° 32' 46.494" E	23° 49' 3.966" N
P-91	85° 32' 46.572" E	23° 49' 6.307" N
P-92	85° 32' 46.714" E	23° 49' 18.257" N

**Provisional Co-ordinates of Cardinal Points (in WGS84) of
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PointsID	Longitude	Latitude
P-93	85° 32' 46.715" E	23° 49' 18.311" N
P-94	85° 32' 46.836" E	23° 49' 27.380" N
P-95	85° 32' 46.856" E	23° 49' 29.382" N
P-96	85° 32' 46.939" E	23° 49' 37.795" N