

BASANTPUR BLOCK SUMMARY
PART A

Sr. No	Features	Details
1. Location		
	Coal Block	Basantpur
	Latitude	23° 48' 49" N - 23° 49' 47" N (Provisional)
	Longitude	85° 32' 46" E - 85° 35' 14" E (Provisional)
	Topo Sheet No.	73E/9, F45B5
	Coalfield	West Bokaro Coalfield.
	Villages	Basantpur, Pachanda, 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	4.34 sq.km. (As per shape file. Refer note below)
	Forest Area	Approx. 10% (As per FSI Map)
	Non-Forest Area	Approx. 90%
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 western part and in the southern part of the block. Another nala, a tributary of Chutua Nadi, is flowing from North to South in the eastern part of the block.
	Rivers	Chutua Nadi
5. Exploration		
	Status	Regionally explored
	Exploration Agency	GSI

	Total Number of Boreholes with meterage	GSI: 4 BHs, 1694.85m (WBKB-1,10,12 & WBPJ-31) CMDPI: 29 BHs, 5077.50m Total: 33 BHs, 6772.35 m			
	Borehole Density	Approx. 7 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)	Geological Reserve (MT)	Grade
	RVI	1.00-1.30			
	RV	2.15-3.15			
	RIV	0.85-1.70			
	RIII	1.27-2.77			
	RII	4.20-6.03			
	RI	0.40-0.59			
	XIII	1.95-3.78			
	XII	0.55-2.79			
	XI	2.03-4.18			
	X	0.80-5.43			
	IX	0.95-2.03			
	VIIIC	0.95-1.85			
	VIIIB	0.47-2.34			
	VIIIA	0.60-1.55			
	VIII	1.45-3.80			
	VIIIB	0.47-0.70			
	VIIA	0.96-1.27			
	VII	1.73-6.18			
	VI	3.65-4.69			
	VI/VII	4.19-12.69			
	VA	6.3			
	V	2.64-12.41			
	IV	3.85-6.60			
	III	1.53-8.50			
	IIB	2.05-4.05			
	IIA	0.70-6.56			
	I	1.00-6.20			
		Total		200	
7.	Surface Constraints	Kedla Washery in the south eastern part of the block. Chutua Nadi			
8.	Grade of coal block	W-IV (Provisional), based on weighted average grade as per seam overall data of 3 boreholes available in regional GR.			
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 following Information is primarily based on "Final Report on Regional Exploration for Coal Kotre-Basantpur-Danea and Adjoining Areas, West Bokaro Coalfield, Hazaribagh District, Bihar; March 1985." by GSI. & 29 Boreholes drilled by CMPDI falling within this block.
2. Provisional weighted average grade is estimated from the seam overall data of 3 boreholes falling within the Basantpur Block boundary.
3. 6 Raniganj seams (RVI to RI) are encountered in WBPJ-31 borehole.

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 updation 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°33'0"E

85°34'0"E

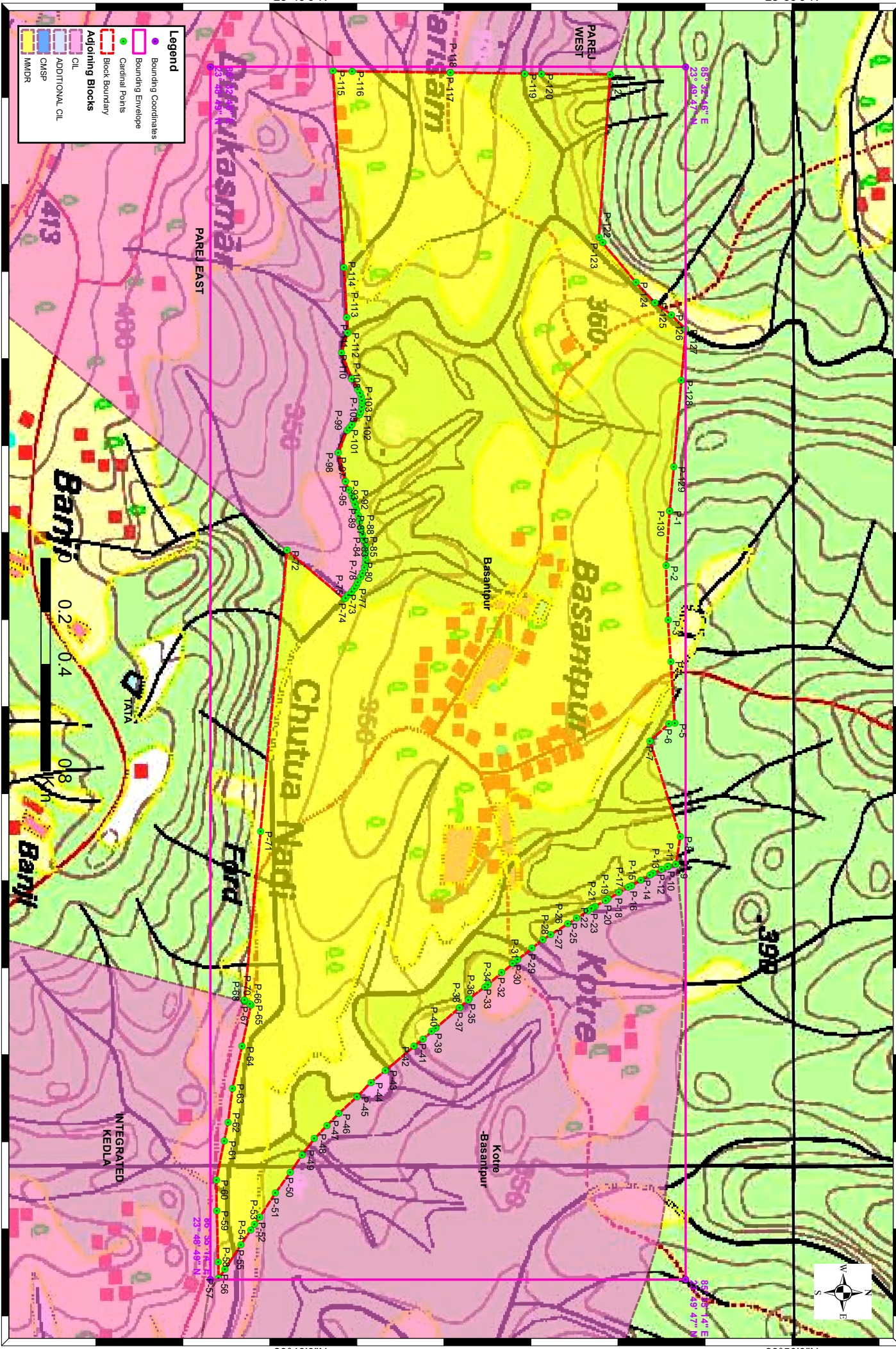
85°35'0"E

23°50'0"N

23°49'0"N

23°50'0"N

23°49'0"N



Note: Coordinates are in WGS84 system.

85°33'0"E

85°34'0"E

85°35'0"E

Provisional Cardinal Points for Basantpur Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-1	85° 33' 40.184" E	23° 49' 45.038" N
P-2	85° 33' 46.895" E	23° 49' 44.611" N
P-3	85° 33' 53.556" E	23° 49' 44.851" N
P-4	85° 33' 58.562" E	23° 49' 45.195" N
P-5	85° 34' 6.109" E	23° 49' 45.669" N
P-6	85° 34' 6.192" E	23° 49' 44.941" N
P-7	85° 34' 8.282" E	23° 49' 42.644" N
P-8	85° 34' 19.931" E	23° 49' 46.346" N
P-9	85° 34' 23.282" E	23° 49' 45.799" N
P-10	85° 34' 23.553" E	23° 49' 44.896" N
P-11	85° 34' 23.597" E	23° 49' 44.752" N
P-12	85° 34' 23.944" E	23° 49' 44.038" N
P-13	85° 34' 24.429" E	23° 49' 43.039" N
P-14	85° 34' 24.658" E	23° 49' 42.635" N
P-15	85° 34' 25.274" E	23° 49' 41.547" N
P-16	85° 34' 25.950" E	23° 49' 40.354" N
P-17	85° 34' 26.155" E	23° 49' 39.993" N
P-18	85° 34' 26.796" E	23° 49' 38.861" N
P-19	85° 34' 27.566" E	23° 49' 37.503" N
P-20	85° 34' 27.739" E	23° 49' 37.204" N
P-21	85° 34' 28.465" E	23° 49' 35.951" N
P-22	85° 34' 28.625" E	23° 49' 35.674" N
P-23	85° 34' 28.712" E	23° 49' 35.525" N
P-24	85° 34' 29.007" E	23° 49' 35.073" N
P-25	85° 34' 29.912" E	23° 49' 33.686" N
P-26	85° 34' 30.596" E	23° 49' 32.611" N
P-27	85° 34' 31.906" E	23° 49' 30.519" N
P-28	85° 34' 32.505" E	23° 49' 29.560" N
P-29	85° 34' 33.595" E	23° 49' 28.237" N
P-30	85° 34' 34.958" E	23° 49' 26.497" N
P-31	85° 34' 35.470" E	23° 49' 25.875" N
P-32	85° 34' 36.557" E	23° 49' 24.555" N
P-33	85° 34' 37.957" E	23° 49' 22.876" N
P-34	85° 34' 38.274" E	23° 49' 22.495" N
P-35	85° 34' 39.756" E	23° 49' 20.574" N
P-36	85° 34' 39.839" E	23° 49' 20.481" N
P-37	85° 34' 40.797" E	23° 49' 19.403" N
P-38	85° 34' 40.797" E	23° 49' 19.403" N
P-39	85° 34' 43.308" E	23° 49' 16.506" N
P-40	85° 34' 43.757" E	23° 49' 15.976" N
P-41	85° 34' 44.619" E	23° 49' 14.957" N
P-42	85° 34' 45.544" E	23° 49' 13.864" N
P-43	85° 34' 48.493" E	23° 49' 10.354" N
P-44	85° 34' 49.949" E	23° 49' 8.604" N
P-45	85° 34' 51.686" E	23° 49' 6.878" N
P-46	85° 34' 53.756" E	23° 49' 4.639" N
P-47	85° 34' 55.173" E	23° 49' 3.233" N

Provisional Cardinal Points for Basantpur Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-48	85° 34' 56.815" E	23° 49' 1.689" N
P-49	85° 34' 58.794" E	23° 49' 0.202" N
P-50	85° 35' 0.949" E	23° 48' 58.738" N
P-51	85° 35' 3.458" E	23° 48' 56.944" N
P-52	85° 35' 6.400" E	23° 48' 55.003" N
P-53	85° 35' 7.293" E	23° 48' 54.382" N
P-54	85° 35' 7.955" E	23° 48' 53.921" N
P-55	85° 35' 9.791" E	23° 48' 52.712" N
P-56	85° 35' 12.762" E	23° 48' 50.766" N
P-57	85° 35' 13.829" E	23° 48' 50.001" N
P-58	85° 35' 11.858" E	23° 48' 49.966" N
P-59	85° 35' 5.577" E	23° 48' 49.770" N
P-60	85° 35' 1.837" E	23° 48' 49.736" N
P-61	85° 34' 57.040" E	23° 48' 50.690" N
P-62	85° 34' 54.829" E	23° 48' 51.151" N
P-63	85° 34' 50.709" E	23° 48' 51.698" N
P-64	85° 34' 45.535" E	23° 48' 52.872" N
P-65	85° 34' 40.475" E	23° 48' 53.961" N
P-66	85° 34' 40.371" E	23° 48' 53.827" N
P-67	85° 34' 40.050" E	23° 48' 53.158" N
P-68	85° 34' 40.017" E	23° 48' 53.161" N
P-69	85° 34' 39.976" E	23° 48' 53.165" N
P-70	85° 34' 39.914" E	23° 48' 53.171" N
P-71	85° 34' 19.319" E	23° 48' 55.117" N
P-72	85° 33' 44.992" E	23° 48' 58.361" N
P-73	85° 33' 50.973" E	23° 49' 5.363" N
P-74	85° 33' 50.856" E	23° 49' 5.484" N
P-75	85° 33' 50.498" E	23° 49' 5.825" N
P-76	85° 33' 50.086" E	23° 49' 6.242" N
P-77	85° 33' 49.643" E	23° 49' 6.565" N
P-78	85° 33' 49.267" E	23° 49' 6.794" N
P-79	85° 33' 48.877" E	23° 49' 7.001" N
P-80	85° 33' 48.312" E	23° 49' 7.348" N
P-81	85° 33' 47.758" E	23° 49' 7.580" N
P-82	85° 33' 47.068" E	23° 49' 7.797" N
P-83	85° 33' 46.450" E	23° 49' 7.916" N
P-84	85° 33' 45.879" E	23° 49' 7.941" N
P-85	85° 33' 45.187" E	23° 49' 7.938" N
P-86	85° 33' 44.557" E	23° 49' 7.890" N
P-87	85° 33' 43.764" E	23° 49' 7.697" N
P-88	85° 33' 43.083" E	23° 49' 7.545" N
P-89	85° 33' 42.351" E	23° 49' 7.370" N
P-90	85° 33' 41.507" E	23° 49' 7.207" N
P-91	85° 33' 40.775" E	23° 49' 7.050" N
P-92	85° 33' 40.104" E	23° 49' 6.850" N
P-93	85° 33' 39.465" E	23° 49' 6.659" N
P-94	85° 33' 38.925" E	23° 49' 6.469" N

Provisional Cardinal Points for Basantpur Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-95	85° 33' 38.348" E	23° 49' 6.240" N
P-96	85° 33' 37.632" E	23° 49' 5.902" N
P-97	85° 33' 36.668" E	23° 49' 5.506" N
P-98	85° 33' 33.079" E	23° 49' 4.600" N
P-99	85° 33' 30.369" E	23° 49' 5.697" N
P-100	85° 33' 30.029" E	23° 49' 5.986" N
P-101	85° 33' 29.649" E	23° 49' 6.277" N
P-102	85° 33' 28.517" E	23° 49' 7.170" N
P-103	85° 33' 28.109" E	23° 49' 7.347" N
P-104	85° 33' 27.560" E	23° 49' 7.471" N
P-105	85° 33' 27.097" E	23° 49' 7.531" N
P-106	85° 33' 26.740" E	23° 49' 7.512" N
P-107	85° 33' 26.288" E	23° 49' 7.426" N
P-108	85° 33' 25.813" E	23° 49' 7.263" N
P-109	85° 33' 25.320" E	23° 49' 6.966" N
P-110	85° 33' 24.123" E	23° 49' 6.254" N
P-111	85° 33' 20.926" E	23° 49' 4.996" N
P-112	85° 33' 18.464" E	23° 49' 5.734" N
P-113	85° 33' 16.598" E	23° 49' 5.632" N
P-114	85° 33' 10.542" E	23° 49' 5.297" N
P-115	85° 32' 46.494" E	23° 49' 3.966" N
P-116	85° 32' 46.572" E	23° 49' 6.307" N
P-117	85° 32' 46.714" E	23° 49' 18.257" N
P-118	85° 32' 46.715" E	23° 49' 18.311" N
P-119	85° 32' 46.836" E	23° 49' 27.380" N
P-120	85° 32' 46.856" E	23° 49' 29.382" N
P-121	85° 32' 46.939" E	23° 49' 37.795" N
P-122	85° 33' 6.855" E	23° 49' 36.427" N
P-123	85° 33' 7.499" E	23° 49' 36.903" N
P-124	85° 33' 12.309" E	23° 49' 40.921" N
P-125	85° 33' 14.791" E	23° 49' 43.247" N
P-126	85° 33' 16.281" E	23° 49' 45.261" N
P-127	85° 33' 18.038" E	23° 49' 46.997" N
P-128	85° 33' 24.214" E	23° 49' 46.463" N
P-129	85° 33' 34.797" E	23° 49' 45.546" N
P-130	85° 33' 40.184" E	23° 49' 45.038" N