

KASTA (EAST) COAL BLOCK SUMMARY

PART A

Sr. No	Features	Details
1. Location		
	Coal Block	Kasta (East)
	Latitude	23° 45' 57" N - 23° 47' 52" N (Provisional)
	Longitude	87° 08' 43" E - 87° 13' 35" E (Provisional)
	Topo Sheet No.	73 M/1
	Coalfield	Raniganj
	Villages	Rasa, Sahapur, Palpai, Binodpur, Kathi, Barra, Arjunshuli, Sira, Kankartala, Parsundi
	Tehsil/Taluka	Khoyrasol
	District	Birbhum
	State	West Bengal
2. Connectivity with Block		
	Nearest Rail Head	Andal-palasthali section of Eastern railways passes through the block. Raswan and Barhra are the two railway stations through which the area may be approached.
	Road	The area is also approachable by road through Barhra-Panchra road which connects the Raniganj-Suri road (state highway) at Pachra.
3. Area		
	Geological Block Area	14.09 sq.km. (As per shape file; Refer Note No. 3)
	Green Cover	Approx. 2 % (As per FSI plan)
	Area excluding green cover	Approx. 98 % (As per FSI plan)
4. Climate and Topography		
	Average Annual Rainfall	1200 mm
	Temperature (Min. — Max.)	10°C to 40°C
	Local Surface Drainage Channels	Many Nallas flow from north to south in the western and southern parts of the block, drain in the Ajoy river in the south which remain the main drainage channel in this region. The river Ajoy flowing from west to east is 1.5 km to the south of the block.
	Rivers	-
5. Exploration		
	Status	Explored
	Exploration Agency	MECL, GSI
	Total Number of Boreholes with meterage	69 Boreholes; 10921.47 m (MECL: 67 Boreholes, 10447.65 m and GSI: 2 Boreholes, 473.82 m).
	Borehole Density	Approx. 5 Boreholes/sq.km.

	General Dip of Seams	The beds dip 11° towards SW.			
	General Strike Direction	The general strike of the beds is East – West with swinging to NW-SE further towards east.			
	Faults	7 normal faults with variable throws.			
6.	Coal Seams & Reserve				
	Coal Seams	Thickness Range (m)	Depth Range (m)	Geological Reserve (MT) (Proved)	Grade
	Kasta Top	0.31-4.26	19.22-299.86	11.23	E-F
	Kasta Bot	0.14-4.45	26.85-306.45	8.86	D-F
	Kasta	0.09-10.62	11.00-334.84	85.33	D-F
		Total		105.42	
7.	Surface Constraints	Kasta Coalfield branch line of E. Railway runs east-west through the block. Habitation on eastern and western part of the block along the northern boundary.			
8.	Grade of the block	G9 (Provisional) based on weighted average grade as per data available in GR.			
9.	Decision Support System (DSS) Analysis	Not Inviolate			
10.	Eco Sensitive Zone (ESZ) Analysis	The ESZ boundary of Parasnath is located Approx.71kms from the N-W block boundary.			
11.	CBA Land Acquisition Status	CBA Land acquired by ECL in the central and eastern part of the block.			

PART B

Sr. No.	Features	Details (As per information submitted by prior allottee)
1.	Previous Allocation	
	Name and Address of Allocatee	Damodar Valley Corporation DVC tower, VIP road , Kolkata- 700054
2.	Target Capacity as per Mining Plan	Mining Plan not available
	Assessed tentative PRC	1.89 Mty
3.	Status of Clearances/Approvals	
	Mining Plan/ Mine Closure Plan	NA
	Forest Clearance	NA
	Environmental Clearance	NA
	Mining Lease	NA
	Land Acquisition	NA
	No. of PAPs as per Mining Plan	NA
4.	Surface Infrastructure already built, if any.	NA

Note:

1. The above data is compiled from Geological Report, Mining Plan and the data furnished by the prior allottee in Annexure-I/II, as available. For clarifications with regard to above data, please refer aforesaid source documents.
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 coordinates are approximate.
3. There may be 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.

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.

Provisional Cardinal Points for Kasta (East) Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-1	87° 8' 43.487" E	23° 47' 19.299" N
P-2	87° 8' 45.275" E	23° 47' 24.662" N
P-3	87° 8' 52.905" E	23° 47' 49.029" N
P-4	87° 8' 53.549" E	23° 47' 50.877" N
P-5	87° 8' 53.575" E	23° 47' 50.871" N
P-6	87° 8' 53.558" E	23° 47' 50.892" N
P-7	87° 8' 53.736" E	23° 47' 51.358" N
P-8	87° 8' 59.685" E	23° 47' 50.047" N
P-9	87° 9' 4.243" E	23° 47' 49.344" N
P-10	87° 9' 10.255" E	23° 47' 48.738" N
P-11	87° 9' 13.243" E	23° 47' 48.751" N
P-12	87° 9' 19.121" E	23° 47' 48.729" N
P-13	87° 9' 19.510" E	23° 47' 48.714" N
P-14	87° 9' 19.511" E	23° 47' 48.723" N
P-15	87° 9' 22.550" E	23° 47' 48.813" N
P-16	87° 9' 25.310" E	23° 47' 48.647" N
P-17	87° 9' 28.804" E	23° 47' 48.131" N
P-18	87° 9' 32.272" E	23° 47' 47.312" N
P-19	87° 9' 34.651" E	23° 47' 46.470" N
P-20	87° 9' 37.182" E	23° 47' 45.186" N
P-21	87° 9' 39.459" E	23° 47' 43.460" N
P-22	87° 9' 41.812" E	23° 47' 41.966" N
P-23	87° 9' 43.508" E	23° 47' 41.335" N
P-24	87° 9' 47.190" E	23° 47' 40.489" N
P-25	87° 9' 52.585" E	23° 47' 40.224" N
P-26	87° 9' 56.548" E	23° 47' 40.335" N
P-27	87° 10' 3.901" E	23° 47' 40.432" N
P-28	87° 10' 7.548" E	23° 47' 39.913" N
P-29	87° 10' 7.666" E	23° 47' 39.889" N
P-30	87° 10' 9.410" E	23° 47' 39.653" N
P-31	87° 10' 12.018" E	23° 47' 39.184" N
P-32	87° 10' 15.005" E	23° 47' 38.412" N
P-33	87° 10' 17.966" E	23° 47' 37.453" N
P-34	87° 10' 20.724" E	23° 47' 36.075" N
P-35	87° 10' 23.985" E	23° 47' 34.435" N
P-36	87° 10' 27.648" E	23° 47' 32.351" N
P-37	87° 10' 30.608" E	23° 47' 30.670" N
P-38	87° 10' 33.778" E	23° 47' 29.111" N
P-39	87° 10' 36.757" E	23° 47' 27.832" N
P-40	87° 10' 36.726" E	23° 47' 27.819" N
P-41	87° 10' 37.282" E	23° 47' 27.594" N
P-42	87° 10' 41.927" E	23° 47' 26.525" N
P-43	87° 10' 41.975" E	23° 47' 26.525" N
P-44	87° 10' 41.959" E	23° 47' 26.463" N
P-45	87° 10' 43.763" E	23° 47' 26.461" N
P-46	87° 10' 44.922" E	23° 47' 26.477" N
P-47	87° 10' 46.081" E	23° 47' 26.825" N

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P-48	87° 10' 46.879" E	23° 47' 27.593" N
P-49	87° 10' 47.470" E	23° 47' 28.956" N
P-50	87° 10' 48.567" E	23° 47' 29.570" N
P-51	87° 10' 49.155" E	23° 47' 29.519" N
P-52	87° 10' 50.476" E	23° 47' 29.261" N
P-53	87° 10' 55.890" E	23° 47' 27.011" N
P-54	87° 10' 58.209" E	23° 47' 26.154" N
P-55	87° 10' 58.215" E	23° 47' 26.165" N
P-56	87° 11' 4.346" E	23° 47' 24.095" N
P-57	87° 11' 7.687" E	23° 47' 22.886" N
P-58	87° 11' 11.539" E	23° 47' 20.959" N
P-59	87° 11' 11.481" E	23° 47' 20.939" N
P-60	87° 11' 12.265" E	23° 47' 20.539" N
P-61	87° 11' 14.475" E	23° 47' 18.470" N
P-62	87° 11' 17.137" E	23° 47' 16.315" N
P-63	87° 11' 21.152" E	23° 47' 13.398" N
P-64	87° 11' 23.532" E	23° 47' 10.740" N
P-65	87° 11' 25.467" E	23° 47' 9.134" N
P-66	87° 11' 27.726" E	23° 47' 8.242" N
P-67	87° 11' 29.779" E	23° 47' 7.592" N
P-68	87° 11' 34.211" E	23° 47' 6.692" N
P-69	87° 11' 36.692" E	23° 47' 5.673" N
P-70	87° 11' 40.970" E	23° 47' 3.301" N
P-71	87° 11' 44.615" E	23° 47' 1.310" N
P-72	87° 11' 46.642" E	23° 47' 0.419" N
P-73	87° 11' 48.943" E	23° 46' 59.947" N
P-74	87° 11' 52.696" E	23° 46' 58.864" N
P-75	87° 11' 58.694" E	23° 46' 56.939" N
P-76	87° 12' 3.122" E	23° 46' 55.888" N
P-77	87° 12' 6.839" E	23° 46' 55.606" N
P-78	87° 12' 10.025" E	23° 46' 55.960" N
P-79	87° 12' 14.766" E	23° 46' 56.845" N
P-80	87° 12' 22.669" E	23° 46' 57.446" N
P-81	87° 12' 22.718" E	23° 46' 59.612" N
P-82	87° 12' 22.219" E	23° 47' 5.615" N
P-83	87° 12' 20.899" E	23° 47' 12.774" N
P-84	87° 12' 19.491" E	23° 47' 22.215" N
P-85	87° 12' 19.125" E	23° 47' 22.879" N
P-86	87° 12' 22.123" E	23° 47' 21.821" N
P-87	87° 12' 28.544" E	23° 47' 19.913" N
P-88	87° 12' 32.002" E	23° 47' 19.079" N
P-89	87° 12' 34.095" E	23° 47' 18.996" N
P-90	87° 12' 35.927" E	23° 47' 19.288" N
P-91	87° 12' 36.654" E	23° 47' 19.950" N
P-92	87° 12' 37.017" E	23° 47' 20.281" N
P-93	87° 12' 37.674" E	23° 47' 21.071" N
P-94	87° 12' 38.518" E	23° 47' 21.638" N
P-95	87° 12' 39.681" E	23° 47' 21.931" N

Provisional Cardinal Points for Kasta (East) Block

P-96	87° 12' 41.280" E	23° 47' 21.902" N
P-97	87° 12' 43.895" E	23° 47' 21.310" N
P-98	87° 12' 46.220" E	23° 47' 20.718" N
P-99	87° 12' 49.008" E	23° 47' 19.297" N
P-100	87° 12' 52.434" E	23° 47' 16.778" N
P-101	87° 12' 55.947" E	23° 47' 13.777" N
P-102	87° 12' 59.547" E	23° 47' 11.016" N
P-103	87° 13' 0.941" E	23° 47' 10.479" N
P-104	87° 13' 2.133" E	23° 47' 10.264" N
P-105	87° 13' 5.419" E	23° 47' 10.767" N
P-106	87° 13' 9.927" E	23° 47' 12.179" N
P-107	87° 13' 17.809" E	23° 47' 14.896" N
P-108	87° 13' 27.056" E	23° 47' 16.381" N
P-109	87° 13' 33.277" E	23° 47' 16.532" N
P-110	87° 13' 34.869" E	23° 47' 16.423" N
P-111	87° 13' 26.160" E	23° 46' 18.627" N
P-112	87° 13' 26.037" E	23° 46' 18.621" N
P-113	87° 13' 26.051" E	23° 46' 18.693" N
P-114	87° 13' 4.985" E	23° 46' 17.840" N
P-115	87° 12' 25.705" E	23° 45' 57.127" N
P-116	87° 11' 53.908" E	23° 46' 2.360" N
P-117	87° 11' 26.212" E	23° 46' 22.278" N
P-118	87° 10' 46.789" E	23° 46' 33.854" N
P-119	87° 10' 46.800" E	23° 46' 33.869" N
P-120	87° 10' 26.936" E	23° 46' 34.002" N
P-121	87° 10' 13.373" E	23° 46' 34.624" N
P-122	87° 10' 6.352" E	23° 46' 34.964" N
P-123	87° 9' 49.969" E	23° 46' 35.754" N
P-124	87° 9' 45.534" E	23° 46' 40.619" N
P-125	87° 9' 40.798" E	23° 46' 44.767" N
P-126	87° 9' 35.821" E	23° 46' 47.754" N
P-127	87° 9' 32.282" E	23° 46' 49.415" N
P-128	87° 9' 27.483" E	23° 46' 51.408" N
P-129	87° 9' 24.364" E	23° 46' 53.289" N
P-130	87° 9' 5.462" E	23° 47' 5.465" N

Note: The provisional cardinal points are in WGS84 coordinate system. These points are extracted through ArcGIS software after georeferencing of block boundary and onground DGPS survey is required to ascertain the exact location of the points.