

## SONHAT BLOCK-A EAST COAL BLOCK SUMMARY

### PART A

Sr. No	Features	Details
<b>1. Location</b>		
	Coal Block	<b>Sonhat Block-A East</b>
	Latitude	23° 17' 46" N-23° 20' 21" N (Provisional)
	Longitude	82° 17' 2" E-82° 23' 45" E (Provisional)
	Topo Sheet No.	64 I/7 & 64 I/3
	Coalfield	Sonhat
	Villages	Amritdhara, Harrapara, Lai
	Tehsil/Taluka	Manendragarh
	District	Koriya
	State	Chhattisgarh
<b>2. Connectivity with Block</b>		
	Nearest Rail Head	The distance of the block from the nearest railway station at Manendragarh on the 41 mile post from Anuppur between Anuppur-Chirimiri railway line of the South Eastern Railway is about 8 miles.
	Road	The all-weather road which connects Manendragarh, railway station with Ambikapur, the district headquarter of the Surguja District of Madhya Pradesh, runs across the south-eastern sector of the block.
	Airport	-
<b>3. Area</b>		
	Geological Block Area	28.4 sq.km. (As per shape file. Please refer Note below)
	Forest Area	Approx.75% (As per FSI)
	Non-Forest Area	Approx. 25%
<b>4. Climate and Topography</b>		
	Average Annual Rainfall	1270cm – 1400cm
	Temperature (Min.- Max.)	12°C-43°C
	Local Surface Drainage Channels	The chief perennial stream of the area is the Hasdo River which has originated in the higher reaches of Korea-Chandbhakar Plateau and flows southwards across the present area along its central sector and joins Mahanadi River beyond Chhattisgarh Basin. A number of streamlets namely Dhuneti, Jura, Darbar, Bea and Dhab with a gentle trickle of water for greater part of the year flow across the area from north-east and north-west and join Hasdo River on its either side.

	Rivers	Hasdo River			
<b>5.</b>	<b>Exploration</b>				
	Status	Regionally Explored			
	Exploration Agency	IBM			
	Total Number of boreholes with meterage	18 Boreholes; 3926.6 m			
	Borehole Density	Approx. 0.6 Boreholes/sq.km.			
	General Dip of Seams	Gentle northerly gradient (2°-10°) of the seams as observed on the surface exposure has subsequently been verified by borehole data. At a few places near the southern boundary of the block both on the east and west of the Hasdo River, a southerly dip has been noticed. This reversal of dip direction and steepening of the gradient of the seam are regarded as being caused by the faults.			
	General Strike Direction	E-W			
	Faults	9 Faults with throw varying between 17m to 100m with 1 boundary fault having throw of about 600m which increases in the eastern sector			
<b>6.</b>	<b>Coal Seams &amp; Reserve</b>				
	Coal Seam	Thickness Range (m)	Depth Range (m)	Geological Reserve (MT) (Inferred)	Grade
	XXIV	0.68			
	XXIII	0.07			
	XXII	5.37-8.22			
	XXI	0.23-0.35			
	XX	1.97-2.00			
	XIX	0.49-0.68			
	XVIII	0.58-2.15			
	XVII	2.28-3.90			
	XVI	0.14-0.65			
	XV	0.13-0.96			
	XIV	0.56-2.51			
	XIII	0.49-1.16			
	XII	0.36-1.22			
	XI	0.70-1.75			
	X	0.72			
	IX	0.36-0.60			
	VIII	0.43-0.97			
	VII	0.07-0.48			
	VI	0.34-0.50			
	V	0.05-0.20			
	IV	0.23-0.36			
	III	0.67			
	II	0.54-1.10			
	I	0.50-0.92			

		<b>Total</b>	<b>320.00</b>
<b>7.</b>	<b>Surface Constraints</b>	NA	
<b>8.</b>	<b>Grade of coal block</b>	G9 (Provisional) based on weighted average grade as per data available in Regional GR.	
<b>9.</b>	<b>Decision Support System (DSS) Analysis</b>	The polygon touches major river(s)- Hasdo or Hesto River, Dhtineti Nala, Halphali N, Wildlife Habitat(s)- Sloth Bear	
<b>10.</b>	<b>Eco Sensitive Zone (ESZ) Analysis</b>	Approx. 22 km from the boundary of ESZ of Guru Ghasi Das NP and TR-PA of Guru Ghasi Das NP.	

**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 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.
4. Summary has been compiled from the Regional Geological Report "Report on the Exploration for Coal in the Sonhat Coalfield, Block-A, District Surguja, M.P." prepared by IBM.

**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.







**Provisional Cardinal Points for SONHAT BLOCK-A EAST Block**

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-1	82° 17' 14.405" E	23° 18' 9.346" N
P-2	82° 17' 12.490" E	23° 18' 9.006" N
P-3	82° 17' 8.617" E	23° 18' 12.452" N
P-4	82° 17' 5.464" E	23° 18' 17.729" N
P-5	82° 17' 2.792" E	23° 18' 23.211" N
P-6	82° 17' 3.408" E	23° 18' 27.597" N
P-7	82° 17' 4.436" E	23° 18' 29.995" N
P-8	82° 17' 6.012" E	23° 18' 31.845" N
P-9	82° 17' 8.959" E	23° 18' 33.627" N
P-10	82° 17' 11.837" E	23° 18' 34.929" N
P-11	82° 17' 15.271" E	23° 18' 36.379" N
P-12	82° 17' 17.806" E	23° 18' 37.544" N
P-13	82° 17' 21.575" E	23° 18' 38.983" N
P-14	82° 17' 25.276" E	23° 18' 39.942" N
P-15	82° 17' 30.141" E	23° 18' 41.107" N
P-16	82° 17' 33.499" E	23° 18' 42.272" N
P-17	82° 17' 36.849" E	23° 18' 44.623" N
P-18	82° 17' 39.161" E	23° 18' 45.857" N
P-19	82° 17' 40.806" E	23° 18' 46.063" N
P-20	82° 17' 42.965" E	23° 18' 46.063" N
P-21	82° 17' 44.198" E	23° 18' 45.343" N
P-22	82° 17' 45.894" E	23° 18' 45.137" N
P-23	82° 17' 47.179" E	23° 18' 45.035" N
P-24	82° 17' 49.184" E	23° 18' 45.754" N
P-25	82° 17' 51.034" E	23° 18' 46.525" N
P-26	82° 17' 53.758" E	23° 18' 47.656" N
P-27	82° 17' 55.711" E	23° 18' 48.581" N
P-28	82° 17' 58.435" E	23° 18' 50.688" N
P-29	82° 18' 0.645" E	23° 18' 52.590" N
P-30	82° 18' 3.729" E	23° 18' 55.879" N
P-31	82° 18' 5.939" E	23° 18' 59.014" N
P-32	82° 18' 6.915" E	23° 19' 1.738" N
P-33	82° 18' 7.255" E	23° 19' 5.422" N
P-34	82° 18' 7.083" E	23° 19' 7.820" N
P-35	82° 18' 6.227" E	23° 19' 11.418" N
P-36	82° 18' 5.541" E	23° 19' 15.358" N
P-37	82° 18' 4.514" E	23° 19' 17.586" N
P-38	82° 18' 2.800" E	23° 19' 20.584" N
P-39	82° 18' 2.029" E	23° 19' 23.239" N
P-40	82° 18' 2.201" E	23° 19' 25.466" N
P-41	82° 18' 3.229" E	23° 19' 27.351" N
P-42	82° 18' 4.599" E	23° 19' 30.092" N
P-43	82° 18' 7.083" E	23° 19' 32.919" N
P-44	82° 18' 9.311" E	23° 19' 34.632" N
P-45	82° 18' 12.908" E	23° 19' 37.716" N
P-46	82° 18' 16.249" E	23° 19' 40.885" N
P-47	82° 18' 18.134" E	23° 19' 43.027" N

**Provisional Cardinal Points for SONHAT BLOCK-A EAST Block**

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-48	82° 18' 18.905" E	23° 19' 44.569" N
P-49	82° 18' 20.189" E	23° 19' 46.710" N
P-50	82° 18' 21.903" E	23° 19' 50.479" N
P-51	82° 18' 22.674" E	23° 19' 53.049" N
P-52	82° 18' 23.873" E	23° 19' 55.191" N
P-53	82° 18' 25.672" E	23° 19' 58.617" N
P-54	82° 18' 27.653" E	23° 20' 1.919" N
P-55	82° 18' 29.176" E	23° 20' 4.894" N
P-56	82° 18' 32.431" E	23° 20' 7.807" N
P-57	82° 18' 35.857" E	23° 20' 9.691" N
P-58	82° 18' 40.483" E	23° 20' 10.462" N
P-59	82° 18' 44.423" E	23° 20' 10.377" N
P-60	82° 18' 46.565" E	23° 20' 9.777" N
P-61	82° 18' 48.792" E	23° 20' 8.150" N
P-62	82° 18' 51.704" E	23° 20' 5.580" N
P-63	82° 18' 55.302" E	23° 20' 2.153" N
P-64	82° 18' 59.242" E	23° 19' 57.699" N
P-65	82° 19' 2.880" E	23° 19' 55.174" N
P-66	82° 19' 5.618" E	23° 19' 54.291" N
P-67	82° 19' 10.121" E	23° 19' 54.016" N
P-68	82° 19' 12.691" E	23° 19' 54.444" N
P-69	82° 19' 15.559" E	23° 19' 56.191" N
P-70	82° 19' 39.254" E	23° 19' 55.327" N
P-71	82° 19' 45.857" E	23° 19' 57.015" N
P-72	82° 19' 50.728" E	23° 19' 58.372" N
P-73	82° 19' 55.599" E	23° 19' 59.728" N
P-74	82° 19' 59.157" E	23° 20' 0.697" N
P-75	82° 20' 2.714" E	23° 20' 1.665" N
P-76	82° 20' 8.995" E	23° 20' 3.416" N
P-77	82° 20' 13.456" E	23° 20' 4.586" N
P-78	82° 20' 16.995" E	23° 20' 5.550" N
P-79	82° 20' 20.534" E	23° 20' 6.514" N
P-80	82° 20' 24.073" E	23° 20' 7.478" N
P-81	82° 20' 28.231" E	23° 20' 8.612" N
P-82	82° 20' 32.389" E	23° 20' 9.746" N
P-83	82° 20' 36.119" E	23° 20' 10.726" N
P-84	82° 20' 39.848" E	23° 20' 11.707" N
P-85	82° 20' 43.795" E	23° 20' 12.768" N
P-86	82° 20' 47.741" E	23° 20' 13.830" N
P-87	82° 20' 51.687" E	23° 20' 14.891" N
P-88	82° 20' 55.057" E	23° 20' 15.962" N
P-89	82° 20' 58.427" E	23° 20' 17.033" N
P-90	82° 21' 1.797" E	23° 20' 18.104" N
P-91	82° 21' 5.167" E	23° 20' 19.174" N
P-92	82° 21' 8.584" E	23° 20' 20.472" N
P-93	82° 21' 11.429" E	23° 20' 18.283" N
P-94	82° 21' 14.273" E	23° 20' 16.095" N

**Provisional Cardinal Points for SONHAT BLOCK-A EAST Block**

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-95	82° 21' 17.118" E	23° 20' 13.907" N
P-96	82° 21' 19.963" E	23° 20' 11.718" N
P-97	82° 21' 22.807" E	23° 20' 9.530" N
P-98	82° 21' 25.652" E	23° 20' 7.341" N
P-99	82° 21' 28.496" E	23° 20' 5.153" N
P-100	82° 21' 31.341" E	23° 20' 2.964" N
P-101	82° 21' 34.185" E	23° 20' 0.776" N
P-102	82° 21' 37.029" E	23° 19' 58.587" N
P-103	82° 21' 39.874" E	23° 19' 56.399" N
P-104	82° 21' 42.718" E	23° 19' 54.210" N
P-105	82° 21' 45.562" E	23° 19' 52.022" N
P-106	82° 21' 48.407" E	23° 19' 49.833" N
P-107	82° 21' 51.251" E	23° 19' 47.645" N
P-108	82° 21' 54.377" E	23° 19' 45.292" N
P-109	82° 21' 57.503" E	23° 19' 42.939" N
P-110	82° 22' 0.628" E	23° 19' 40.586" N
P-111	82° 22' 3.754" E	23° 19' 38.233" N
P-112	82° 22' 6.880" E	23° 19' 35.881" N
P-113	82° 22' 10.006" E	23° 19' 33.528" N
P-114	82° 22' 12.899" E	23° 19' 31.597" N
P-115	82° 22' 15.792" E	23° 19' 29.667" N
P-116	82° 22' 18.685" E	23° 19' 27.737" N
P-117	82° 22' 21.578" E	23° 19' 25.807" N
P-118	82° 22' 23.404" E	23° 19' 24.428" N
P-119	82° 22' 23.640" E	23° 19' 24.215" N
P-120	82° 22' 29.521" E	23° 19' 18.920" N
P-121	82° 22' 32.181" E	23° 19' 16.467" N
P-122	82° 22' 34.993" E	23° 19' 13.749" N
P-123	82° 22' 37.804" E	23° 19' 11.031" N
P-124	82° 22' 40.616" E	23° 19' 8.313" N
P-125	82° 22' 43.158" E	23° 19' 5.901" N
P-126	82° 22' 45.699" E	23° 19' 3.490" N
P-127	82° 22' 48.241" E	23° 19' 1.079" N
P-128	82° 22' 50.783" E	23° 18' 58.668" N
P-129	82° 22' 53.324" E	23° 18' 56.256" N
P-130	82° 22' 55.866" E	23° 18' 53.845" N
P-131	82° 22' 58.408" E	23° 18' 51.434" N
P-132	82° 23' 0.949" E	23° 18' 49.022" N
P-133	82° 23' 3.491" E	23° 18' 46.611" N
P-134	82° 23' 6.032" E	23° 18' 44.200" N
P-135	82° 23' 8.573" E	23° 18' 41.788" N
P-136	82° 23' 11.115" E	23° 18' 39.377" N
P-137	82° 23' 13.656" E	23° 18' 36.966" N
P-138	82° 23' 16.198" E	23° 18' 34.554" N
P-139	82° 23' 18.739" E	23° 18' 32.143" N
P-140	82° 23' 23.245" E	23° 18' 27.564" N
P-141	82° 23' 26.738" E	23° 18' 24.226" N

**Provisional Cardinal Points for SONHAT BLOCK-A EAST Block**

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-142	82° 23' 29.632" E	23° 18' 21.578" N
P-143	82° 23' 32.527" E	23° 18' 18.930" N
P-144	82° 23' 35.001" E	23° 18' 16.326" N
P-145	82° 23' 37.476" E	23° 18' 13.722" N
P-146	82° 23' 39.951" E	23° 18' 11.118" N
P-147	82° 23' 42.425" E	23° 18' 8.515" N
P-148	82° 23' 44.900" E	23° 18' 5.911" N
P-149	82° 23' 40.621" E	23° 18' 4.562" N
P-150	82° 23' 36.342" E	23° 18' 3.214" N
P-151	82° 23' 32.062" E	23° 18' 1.865" N
P-152	82° 23' 28.725" E	23° 18' 0.045" N
P-153	82° 23' 25.388" E	23° 17' 58.224" N
P-154	82° 23' 22.051" E	23° 17' 56.403" N
P-155	82° 23' 18.714" E	23° 17' 54.582" N
P-156	82° 23' 15.377" E	23° 17' 52.762" N
P-157	82° 23' 12.040" E	23° 17' 50.941" N
P-158	82° 23' 8.703" E	23° 17' 49.120" N
P-159	82° 23' 4.938" E	23° 17' 48.527" N
P-160	82° 23' 1.174" E	23° 17' 47.934" N
P-161	82° 22' 57.410" E	23° 17' 47.341" N
P-162	82° 22' 53.646" E	23° 17' 46.748" N
P-163	82° 22' 49.882" E	23° 17' 46.155" N
P-164	82° 22' 47.141" E	23° 17' 45.542" N
P-165	82° 22' 44.399" E	23° 17' 52.928" N
P-166	82° 22' 41.658" E	23° 17' 56.315" N
P-167	82° 22' 40.317" E	23° 18' 0.092" N
P-168	82° 22' 38.976" E	23° 18' 3.869" N
P-169	82° 22' 37.635" E	23° 18' 7.645" N
P-170	82° 22' 34.536" E	23° 18' 9.380" N
P-171	82° 22' 31.436" E	23° 18' 11.115" N
P-172	82° 22' 28.336" E	23° 18' 12.849" N
P-173	82° 22' 25.236" E	23° 18' 14.584" N
P-174	82° 22' 21.436" E	23° 18' 16.866" N
P-175	82° 22' 17.636" E	23° 18' 19.149" N
P-176	82° 22' 13.836" E	23° 18' 21.431" N
P-177	82° 22' 10.040" E	23° 18' 21.575" N
P-178	82° 22' 6.244" E	23° 18' 21.719" N
P-179	82° 22' 2.449" E	23° 18' 21.863" N
P-180	82° 21' 58.653" E	23° 18' 22.007" N
P-181	82° 21' 54.857" E	23° 18' 22.151" N
P-182	82° 21' 51.244" E	23° 18' 21.310" N
P-183	82° 21' 47.630" E	23° 18' 20.469" N
P-184	82° 21' 44.017" E	23° 18' 19.628" N
P-185	82° 21' 40.404" E	23° 18' 18.787" N
P-186	82° 21' 36.790" E	23° 18' 17.945" N
P-187	82° 21' 33.177" E	23° 18' 17.104" N
P-188	82° 21' 29.010" E	23° 18' 16.814" N



**Provisional Cardinal Points for SONHAT BLOCK-A EAST Block**

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-189	82° 21' 24.842" E	23° 18' 16.523" N
P-190	82° 21' 20.675" E	23° 18' 16.233" N
P-191	82° 21' 16.507" E	23° 18' 15.942" N
P-192	82° 21' 12.340" E	23° 18' 15.652" N
P-193	82° 21' 8.892" E	23° 18' 16.353" N
P-194	82° 21' 5.444" E	23° 18' 17.053" N
P-195	82° 21' 1.997" E	23° 18' 17.754" N
P-196	82° 20' 58.549" E	23° 18' 18.455" N
P-197	82° 20' 55.101" E	23° 18' 19.155" N
P-198	82° 20' 51.504" E	23° 18' 18.476" N
P-199	82° 20' 47.908" E	23° 18' 17.797" N
P-200	82° 20' 44.311" E	23° 18' 17.118" N
P-201	82° 20' 40.714" E	23° 18' 16.439" N
P-202	82° 20' 36.552" E	23° 18' 15.165" N
P-203	82° 20' 32.389" E	23° 18' 13.890" N
P-204	82° 20' 28.227" E	23° 18' 12.616" N
P-205	82° 20' 24.376" E	23° 18' 12.344" N
P-206	82° 20' 20.524" E	23° 18' 12.072" N
P-207	82° 20' 16.673" E	23° 18' 11.799" N
P-208	82° 20' 12.821" E	23° 18' 11.527" N
P-209	82° 20' 8.999" E	23° 18' 11.588" N
P-210	82° 20' 5.178" E	23° 18' 11.649" N
P-211	82° 20' 1.356" E	23° 18' 11.710" N
P-212	82° 19' 57.534" E	23° 18' 11.771" N
P-213	82° 19' 53.712" E	23° 18' 11.832" N
P-214	82° 19' 49.891" E	23° 18' 11.893" N
P-215	82° 19' 46.069" E	23° 18' 11.954" N
P-216	82° 19' 42.247" E	23° 18' 12.015" N
P-217	82° 19' 38.425" E	23° 18' 12.076" N
P-218	82° 19' 34.866" E	23° 18' 12.201" N
P-219	82° 19' 31.308" E	23° 18' 12.326" N
P-220	82° 19' 27.749" E	23° 18' 12.452" N
P-221	82° 19' 24.190" E	23° 18' 12.577" N
P-222	82° 19' 20.631" E	23° 18' 12.702" N
P-223	82° 19' 17.072" E	23° 18' 12.827" N
P-224	82° 19' 13.513" E	23° 18' 12.952" N
P-225	82° 19' 9.955" E	23° 18' 13.077" N
P-226	82° 19' 6.396" E	23° 18' 13.202" N
P-227	82° 19' 2.837" E	23° 18' 13.327" N
P-228	82° 18' 59.278" E	23° 18' 13.452" N
P-229	82° 18' 55.719" E	23° 18' 13.577" N
P-230	82° 18' 52.160" E	23° 18' 13.702" N
P-231	82° 18' 48.602" E	23° 18' 13.827" N
P-232	82° 18' 45.043" E	23° 18' 13.952" N
P-233	82° 18' 41.269" E	23° 18' 14.073" N
P-234	82° 18' 37.496" E	23° 18' 14.193" N
P-235	82° 18' 33.723" E	23° 18' 14.314" N

**Provisional Cardinal Points for SONHAT BLOCK-A EAST Block**

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-236	82° 18' 29.950" E	23° 18' 14.435" N
P-237	82° 18' 26.176" E	23° 18' 14.555" N
P-238	82° 18' 22.403" E	23° 18' 14.676" N
P-239	82° 18' 18.630" E	23° 18' 14.797" N
P-240	82° 18' 14.856" E	23° 18' 14.917" N
P-241	82° 18' 11.083" E	23° 18' 15.038" N
P-242	82° 18' 7.310" E	23° 18' 15.159" N
P-243	82° 18' 3.537" E	23° 18' 15.279" N
P-244	82° 17' 59.763" E	23° 18' 15.400" N
P-245	82° 17' 55.996" E	23° 18' 15.092" N
P-246	82° 17' 52.228" E	23° 18' 14.784" N
P-247	82° 17' 48.460" E	23° 18' 14.475" N
P-248	82° 17' 44.692" E	23° 18' 14.167" N
P-249	82° 17' 40.925" E	23° 18' 13.859" N
P-250	82° 17' 37.157" E	23° 18' 13.551" N
P-251	82° 17' 33.389" E	23° 18' 13.243" N
P-252	82° 17' 31.765" E	23° 18' 13.110" N
P-253	82° 17' 23.499" E	23° 18' 10.446" N