

**UTKAL – B1 COAL BLOCK SUMMARY**  
**PART A**

Sr. No	Features	Details
<b>1. Location</b>		
	Coal Block	<b>Utkal- B1</b>
	Latitude	20° 56' 52" N – 20° 58' 35" N (Provisional)
	Longitude	84° 58' 8" E – 84° 58' 45" E (Provisional)
	Topo Sheet No.	73 D/13
	Coalfield	Talcher
	Villages	Raijharan, Golagania, Kamshidip, Jagdumra
	Tehsil/Taluka	Tahsil Town Chhendipada
	District	Angul
	State	Orissa
<b>2. Connectivity with Block</b>		
	Nearest Rail Head	The nearest railhead is Angul which is about 20 km from the southern boundary of the block connected to Talcher-Cuttack railway line.
	Road	Connected by all-weather road to Angul, the district headquarter (20km). The Rangali-Angul metalled road forms the southern boundary.
	Airport	
<b>3. Area</b>		
	Geological Block Area	2.61 sq.km. (As per Shapefile. Refer note below) 2.70 sq.km (As per GR)
	Forest Area	Approx. 2% (As per FSI Map)
	Non-Forest Area	98 %
<b>4. Climate and Topography</b>		
	Average Annual Rainfall	70 cm - 187 cm
	Temperature (Min. — Max.)	9° - 49°
	Local Surface Drainage Channels	The main drainage is controlled by the southerly flowing Brahmani River situated in the eastern extremity of the coalfield which is fed by Tikra Jhor, Singhada Jhor, Bangaru Jhor, Nandira Jhor and few other nalas. Singhada Jhor flows eastwards in the northern extremity of the block and forms the northern boundary. Two small nalas (Ghordia Nala and unspecified nala) pass through the block and discharge into Singhada Jhor.
	Rivers	
<b>5. Exploration</b>		
	Status	Explored in Detail

	Exploration Agency	CMPDIL			
	Total Number of Boreholes with meterage	42 Boreholes; 5806.60 m			
	Borehole Density	Approx. 15.5 Boreholes /sq.km.			
	General Dip of Seams	4°-8° towards north.			
	General Strike Direction	East-West with minor variations			
<b>6.</b>	<b>Coal Seams &amp; Reserve</b>				
	Coal Seams	Thickness Range (m)	Depth Range (m)	Geological Reserve (MT)	Grade
	XI	9.10-15.33	21.15-67.49	8.361	G
	X	5.54-5.90	11.65-80.17	3.107	F-G
	IX	16.99-29.40	19.90-67-17	23.182	G
	VIII	8.35-11.50	6.80-79.50	12.246	F-G
	IX +VIII	36.50-48.20	44.98-134.28	44.849	F
	VIIB	1.20-5.69	24.25-142.58	11.416	D-G
	VIIA	0.44-2.66	33.61-149.51	2.294	G
	VIB	0.18-3.10			F-G
	VB	1.84-5.02	18.60-168.36	9.763	E-G
	VA	0.77-3.54	9.20-173.54	7.105	F-G
	IVB	0.50-5.48	18.60-182.60	9.245	F-G
	IIIE (TOP)	0.50-2.84	9.66-186.96	5.162	F-G
	IIIE (BOT)	1.37-4.55	12.23-73.29	2.206	C-F
	IIID	1.73-5.88	19.20-81.55	4.842	E-G
	IIIA (TOP)	0.28-2.16	28.56-132.74	1.541	E-G
	IIIA (BOT)	0.10-4.55	31.69-209.95	4.914	F-G
	III (ETOP + EBOT+ D + A TOP)	16.73-19.44	128.36-196.05	11.639	F-G
	III (E TOP + E BOT + D)	12.32-15.65	34.81-129.96	3.762	F-G
	III (E TOP + E BOT)	3.03	12.03	0.048	
	III (E BOT + D)	10.32-12.01	59.75-117.00	10.739	F
	III (E BOT + D + A TOP)	14.50-15.53	139.55-204.13	16.348	E-F
	IIIE	0.33-6.89	35.18-226.11	20.177	F-G
	IID	0.02-5.72	57.65-232.80	9.227	E-G
	IIC	0.05-1.67	65.65-240.80	1.381	F-G
	IIB	0.15-1.04	95.37-255.20		F
	IIA	0.12-1.87	98.66-258.23	4.586	E-F
		<b>Total</b>		<b>228.140</b>	
<b>7.</b>	<b>Surface Constraints</b>	NA			
<b>8.</b>	<b>Grade of the block</b>	G12 (Provisional) based on weighted average grade as per data available in GR.			
<b>9.</b>	<b>Decision Support System (DSS) Analysis</b>	The polygon touches wildlife habitat of Sloth Bear.			
<b>10.</b>	<b>Eco Sensitive Zone (ESZ) Analysis</b>	Approx. 14 km to the Simlipal-Satkosia Tiger Corridor from the SW block boundary, 32 km to the Sambalpur Elephant Reserve from the Western block boundary and 12 km to the Mahanadi Elephant Reserve from the South-western block boundary.			

## PART B

Sl. No.	Features	Details
1.	<b>Previous Allocation</b>	
	Name and Address of Allocatee	Jindal Steel & Power Limited
2.	<b>Mine Capacity as per Mining Plan</b>	<b>5.5 Mty</b>
3.	<b>Status of Clearances/Approvals (As per information submitted by the prior allottee)</b>	
	Mining Plan/ Mine Closure Plan	Approved
	Forest Clearance	Granted
	Environmental Clearance	Granted
	Mining Lease	Pending
	Land Acquisition	328.38 Ha land acquired

### 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.

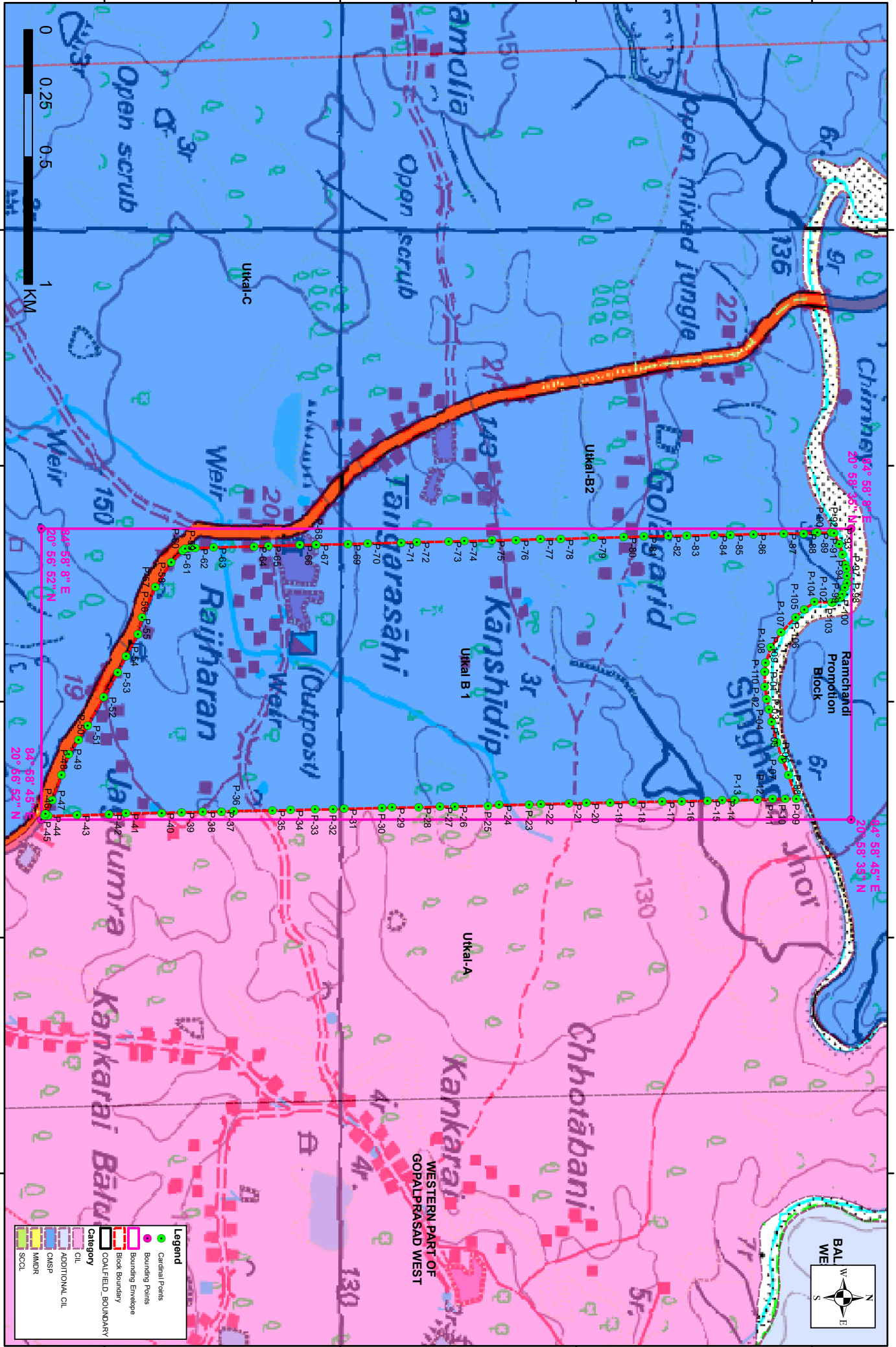
### Disclaimer:

1. The analysis is done on Beta-version (Trial Version) of Decision Support System (DSS) of FSI/ MOEF.
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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.

20°57'0"N 20°57'30"N 20°58'0"N 20°58'30"N

**Utikal B1 Block, Talcher Coalfield**

**FOR INTERNAL/RESTRICTED USE ONLY**



Legend	
<span style="color: green;">●</span>	Cardinal Points
<span style="color: magenta;">●</span>	Bounding Points
<span style="border: 1px solid magenta; display: inline-block; width: 10px; height: 10px;"></span>	Bounding Envelope
<span style="border: 1px solid red; display: inline-block; width: 10px; height: 10px;"></span>	Block Boundary
<span style="border: 1px dashed red; display: inline-block; width: 10px; height: 10px;"></span>	COALFIELD BOUNDARY
Category	
<span style="background-color: #90EE90; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span>	CIL
<span style="background-color: #ADD8E6; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span>	ADDITIONAL CIL
<span style="background-color: #90EE90; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span>	CMSF
<span style="background-color: #ADD8E6; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span>	MMDR
<span style="background-color: #90EE90; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span>	SCCL

Note: The map is prepared on WGS84 coordinate system.

20°57'0"N 20°57'30"N 20°58'0"N 20°58'30"N

84°57'30"E 84°58'0"E 84°58'30"E 84°59'0"E 84°59'30"E

**Provisional Co-ordinates of Cardinal Points for Utkal-B1 Block**

<b>Point No.</b>	<b>Longitude (WGS84)</b>	<b>Latitude (WGS84)</b>
P-1	84° 58' 26.164" E	20° 58' 23.989" N
P-2	84° 58' 28.115" E	20° 58' 24.003" N
P-3	84° 58' 29.655" E	20° 58' 24.225" N
P-4	84° 58' 30.972" E	20° 58' 24.557" N
P-5	84° 58' 32.561" E	20° 58' 24.891" N
P-6	84° 58' 35.192" E	20° 58' 25.562" N
P-7	84° 58' 37.336" E	20° 58' 26.216" N
P-8	84° 58' 39.293" E	20° 58' 27.004" N
P-9	84° 58' 42.329" E	20° 58' 28.000" N
P-10	84° 58' 42.379" E	20° 58' 26.619" N
P-11	84° 58' 42.405" E	20° 58' 24.997" N
P-12	84° 58' 42.471" E	20° 58' 23.078" N
P-13	84° 58' 42.525" E	20° 58' 20.183" N
P-14	84° 58' 42.547" E	20° 58' 18.587" N
P-15	84° 58' 42.607" E	20° 58' 16.733" N
P-16	84° 58' 42.668" E	20° 58' 13.448" N
P-17	84° 58' 42.717" E	20° 58' 10.936" N
P-18	84° 58' 42.761" E	20° 58' 7.250" N
P-19	84° 58' 42.844" E	20° 58' 4.347" N
P-20	84° 58' 42.897" E	20° 58' 1.330" N
P-21	84° 58' 42.970" E	20° 57' 59.099" N
P-22	84° 58' 43.029" E	20° 57' 55.535" N
P-23	84° 58' 43.098" E	20° 57' 54.059" N
P-24	84° 58' 43.136" E	20° 57' 50.208" N
P-25	84° 58' 43.255" E	20° 57' 48.819" N
P-26	84° 58' 43.338" E	20° 57' 44.579" N
P-27	84° 58' 43.373" E	20° 57' 42.692" N
P-28	84° 58' 43.444" E	20° 57' 39.975" N
P-29	84° 58' 43.475" E	20° 57' 36.607" N
P-30	84° 58' 43.522" E	20° 57' 35.329" N
P-31	84° 58' 43.630" E	20° 57' 30.528" N
P-32	84° 58' 43.715" E	20° 57' 29.119" N
P-33	84° 58' 43.716" E	20° 57' 26.801" N
P-34	84° 58' 43.786" E	20° 57' 23.706" N
P-35	84° 58' 43.831" E	20° 57' 21.405" N
P-36	84° 58' 43.899" E	20° 57' 16.493" N
P-37	84° 58' 43.982" E	20° 57' 14.905" N
P-38	84° 58' 44.016" E	20° 57' 12.525" N
P-39	84° 58' 44.068" E	20° 57' 9.849" N
P-40	84° 58' 44.135" E	20° 57' 7.299" N
P-41	84° 58' 44.201" E	20° 57' 2.748" N
P-42	84° 58' 44.328" E	20° 57' 0.608" N
P-43	84° 58' 44.464" E	20° 56' 56.548" N
P-44	84° 58' 44.542" E	20° 56' 52.861" N
P-45	84° 58' 44.537" E	20° 56' 52.404" N
P-46	84° 58' 44.288" E	20° 56' 52.527" N
P-47	84° 58' 42.528" E	20° 56' 53.399" N

**Provisional Co-ordinates of Cardinal Points for Utkal-B1 Block**

<b>Point No.</b>	<b>Longitude (WGS84)</b>	<b>Latitude (WGS84)</b>
P-48	84° 58' 39.322" E	20° 56' 54.555" N
P-49	84° 58' 36.663" E	20° 56' 55.501" N
P-50	84° 58' 34.877" E	20° 56' 56.734" N
P-51	84° 58' 33.017" E	20° 56' 57.898" N
P-52	84° 58' 29.413" E	20° 56' 59.925" N
P-53	84° 58' 26.288" E	20° 57' 1.708" N
P-54	84° 58' 24.235" E	20° 57' 2.775" N
P-55	84° 58' 21.384" E	20° 57' 4.277" N
P-56	84° 58' 19.265" E	20° 57' 4.828" N
P-57	84° 58' 15.431" E	20° 57' 6.503" N
P-58	84° 58' 12.258" E	20° 57' 8.519" N
P-59	84° 58' 10.803" E	20° 57' 9.973" N
P-60	84° 58' 10.547" E	20° 57' 10.264" N
P-61	84° 58' 10.501" E	20° 57' 10.923" N
P-62	84° 58' 10.481" E	20° 57' 11.579" N
P-63	84° 58' 10.384" E	20° 57' 13.918" N
P-64	84° 58' 10.244" E	20° 57' 19.068" N
P-65	84° 58' 10.200" E	20° 57' 20.880" N
P-66	84° 58' 10.091" E	20° 57' 24.861" N
P-67	84° 58' 10.031" E	20° 57' 26.894" N
P-68	84° 58' 10.029" E	20° 57' 26.962" N
P-69	84° 58' 9.964" E	20° 57' 31.013" N
P-70	84° 58' 9.884" E	20° 57' 33.506" N
P-71	84° 58' 9.765" E	20° 57' 37.778" N
P-72	84° 58' 9.716" E	20° 57' 39.761" N
P-73	84° 58' 9.631" E	20° 57' 43.805" N
P-74	84° 58' 9.588" E	20° 57' 45.814" N
P-75	84° 58' 9.506" E	20° 57' 49.318" N
P-76	84° 58' 9.428" E	20° 57' 52.367" N
P-77	84° 58' 9.338" E	20° 57' 55.471" N
P-78	84° 58' 9.313" E	20° 57' 58.059" N
P-79	84° 58' 9.170" E	20° 58' 2.251" N
P-80	84° 58' 9.090" E	20° 58' 6.081" N
P-81	84° 58' 9.004" E	20° 58' 8.656" N
P-82	84° 58' 8.934" E	20° 58' 11.728" N
P-83	84° 58' 8.886" E	20° 58' 14.091" N
P-84	84° 58' 8.804" E	20° 58' 17.589" N
P-85	84° 58' 8.778" E	20° 58' 19.623" N
P-86	84° 58' 8.691" E	20° 58' 22.562" N
P-87	84° 58' 8.628" E	20° 58' 26.418" N
P-88	84° 58' 8.606" E	20° 58' 28.956" N
P-89	84° 58' 8.515" E	20° 58' 30.507" N
P-90	84° 58' 8.507" E	20° 58' 30.696" N
P-91	84° 58' 8.524" E	20° 58' 32.439" N
P-92	84° 58' 8.527" E	20° 58' 32.831" N
P-93	84° 58' 9.931" E	20° 58' 33.454" N
P-94	84° 58' 11.307" E	20° 58' 33.904" N

**Provisional Co-ordinates of Cardinal Points for Utkal-B1 Block**

<b>Point No.</b>	<b>Longitude (WGS84)</b>	<b>Latitude (WGS84)</b>
P-95	84° 58' 12.560" E	20° 58' 34.268" N
P-96	84° 58' 13.110" E	20° 58' 34.425" N
P-97	84° 58' 14.032" E	20° 58' 34.487" N
P-98	84° 58' 14.875" E	20° 58' 34.465" N
P-99	84° 58' 15.496" E	20° 58' 34.203" N
P-100	84° 58' 16.300" E	20° 58' 33.871" N
P-101	84° 58' 16.829" E	20° 58' 33.558" N
P-102	84° 58' 17.338" E	20° 58' 32.664" N
P-103	84° 58' 17.361" E	20° 58' 32.518" N
P-104	84° 58' 17.332" E	20° 58' 30.316" N
P-105	84° 58' 18.258" E	20° 58' 29.019" N
P-106	84° 58' 19.239" E	20° 58' 27.929" N
P-107	84° 58' 21.205" E	20° 58' 26.059" N
P-108	84° 58' 23.092" E	20° 58' 24.782" N
P-109	84° 58' 25.010" E	20° 58' 24.125" N
P-110	84° 58' 26.164" E	20° 58' 23.989" N

**UTKAL – B2 COAL BLOCK SUMMARY**  
**PART A**

Sr. No	Features	Details
<b>1. Location</b>		
	Coal Block	<b>Utkal- B2</b>
	Latitude	20° 57' 10" N – 20° 58' 33" N (Provisional)
	Longitude	84° 57' 39" E – 84° 58' 11" E (Provisional)
	Topo Sheet No.	73 D/13
	Coalfield	Talcher
	Villages	Raijharan, Golagaria, Kanshidip, Jagdumra, Tangarasahi
	Tehsil/Taluka	Tahsil Town Chhendipada
	District	Angul
	State	Orissa
<b>2. Connectivity with Block</b>		
	Nearest Rail Head	Railway station is nearest at Angul on Cuttack-Talcher-Sambalpur line (27km).
	Road	Connected by all-weather road to Angul, the district headquarter (20km). The Rangali-Angul metalled road forms the southern boundary.
	Airport	
<b>3. Area</b>		
	Geological Block Area	1.04 sq.km (As per Shape file. Refer note below) 1.20 sq.km (As per GR)
	Forest Area	Nil (As per FSI Map)
	Non-Forest Area	100 %
<b>4. Climate and Topography</b>		
	Average Annual Rainfall	67 cm - 214 cm
	Temperature (Min. — Max.)	9° - 49°
	Local Surface Drainage Channels	The main drainage is controlled by the southerly flowing Brahmani River situated in the eastern extremity of the coalfield which is fed by Tikra Jhor, Singhada Jhor, Bangaru Jhor, Nandira Jhor and few other nalas. Singhada Jhor flows eastwards in the northern extremity of the block and forms the northern boundary. Two small nalas (Ghordia Nala and unspecified nala) pass through the block and discharge into Singhada Jhor.
	Rivers	
<b>5. Exploration</b>		
	Status	Explored in Detail
	Exploration Agency	CMPDIL



	Total Number of Boreholes with meterage	23 Boreholes; 4047.10 m			
	Borehole Density	Approx. 19 Boreholes /sq.km.			
	General Dip of Seams	4°-8° towards north.			
	General Strike Direction	East-West with minor variations			
<b>6.</b>	<b>Coal Seams &amp; Reserve</b>				
	Coal Seams	Thickness Range (m)	Depth Range (m)	Geological Reserve (MT)	Grade
	XI	11.22-14.28	23.50-43.42	3.8317	F-G
	X	2.61-5.67	14.40-61.65	2.3784	G
	IX	18.20-34.51	11.19-89.47	28.312	F
	VIII	2.93-12.90	11.00-119.70	11.4722	G
	IX +VIII	45.47	68.89	0	F
	VII B	1.98-5.00	9.30-133.40	5.9429	E-F
	VII A	0.25-5.10	20.22-143.36	3.3295	G
	VI B	0.08-1.17	44.67-160.14	0.6318	E-G
	VI B	1.70-5.45	49.05-164.70	5.9214	G
	VA	0.20-5.25	54.47-170.55	4.2266	F
	IV B	0.42-4.30	62.57-177.23	3.5322	G
	III E (TOP)	1.21-3.69	16.20-187.16	4.0203	F-G
	III E (BOT)	0.60-6.81	21.60-190.88	6.7005	F
	III D	3.70-8.62	29.65-196.77	12.2338	F
	III A (TOP)	0.55-3.01	88.05-203.55	3.6159	G
	III A (BOT)	0.14-4.69	92.56-206.64	4.0271	F-G
	III (ETOP + EBOT+ D + A TOP)	17.37	142.53	0	G
	III (E TOP + E BOT + D)	7.04	104.45	0	F
	III (E TOP + E BOT)			0	
	III (E BOT + D)	9.07-11.05	74.75-110.98	0	F-G
	III (E BOT + D + A TOP)	14.05-14.95	117.59-166.32	0	F-G
	II E	1.43-7.31	50.05-215.15	11.0397	F-G
	II D	0.19-4.75	119.96-229.22	4.1073	F
	II C	0.05-1.25	128.62-241.20	0.7451	D-G
	II B	0.12-0.66	177.44-261.70	0.5437	E-F
	II A	0.50-1.47	165.20-264.55	2.33	F
		<b>Total</b>		<b>118.9421</b>	
<b>7.</b>	<b>Surface Constraints</b>	NA			
<b>8.</b>	<b>Grade of the block</b>	G12 (Provisional) based on weighted average grade as per data available in GR.			
<b>9.</b>	<b>Decision Support System (DSS) Analysis</b>	The polygon touches wildlife habitat of Sloth Bear.			
<b>10.</b>	<b>Eco Sensitive Zone (ESZ) Analysis</b>	Approx. 13 km to the Simlipal-Satkosia Tiger Corridor from the western block boundary, 32.4 km to the Sambalpur Elephant Reserve from the Western block boundary and 12 km to the Mahanadi Elephant Reserve from the South-western block boundary.			

## PART B

Sl. No.	Features	Details
<b>1.</b>	<b>Previous Allocation</b>	
	Name and Address of Allocatee	Monnet Ispat Ltd.
<b>2.</b>	<b>Mine Capacity as per Mining Plan</b>	<b>2.2 Mty</b>
<b>3.</b>	<b>Status of Clearances/Approvals (As per information submitted by the prior allottee)</b>	
	Mining Plan/ Mine Closure Plan	Approved
	Forest Clearance	Granted
	Environmental Clearance	Granted
	Mining Lease	Not granted
	Land Acquisition	320.93 Acre land acquired

**Note:**

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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.
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20°57'30"N

20°58'0"N

20°58'30"N

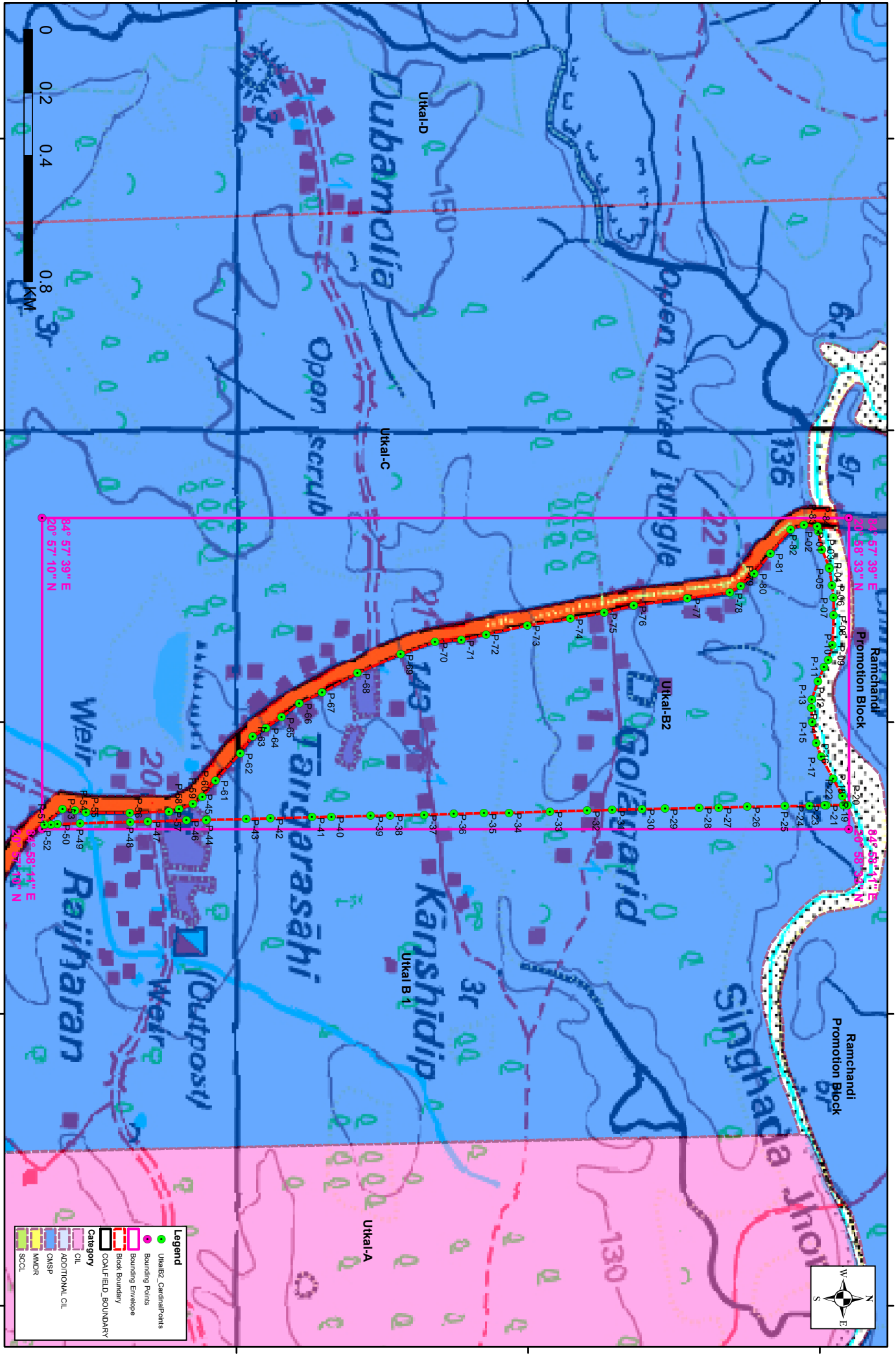
84°57'0"E

84°57'30"E

84°58'0"E

84°58'30"E

84°59'0"E



Utikal B2 Block, Talcher Coalfield

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Note: The map is prepared on WGS84 coordinate system.

Legend	
<span style="color: green;">●</span>	Utikal2_CardinalPoints
<span style="color: magenta;">●</span>	Bounding Points
<span style="border: 1px solid magenta; display: inline-block; width: 10px; height: 10px;"></span>	Bounding Envelope
<span style="border: 1px solid orange; display: inline-block; width: 10px; height: 10px;"></span>	Block Boundary
<span style="border: 1px dashed orange; display: inline-block; width: 10px; height: 10px;"></span>	COALFIELD BOUNDARY
Category	
<span style="background-color: blue; width: 10px; height: 10px;"></span>	CIL
<span style="background-color: green; width: 10px; height: 10px;"></span>	ADDITIONAL CIL
<span style="background-color: pink; width: 10px; height: 10px;"></span>	CMSF
<span style="background-color: lightblue; width: 10px; height: 10px;"></span>	MMDR
<span style="background-color: lightpink; width: 10px; height: 10px;"></span>	SCCL

**Provisional Co-ordinates of Cardinal Points for Utkal-B2 Block**

<b>Point No.</b>	<b>Longitude (WGS84)</b>	<b>Latitude (WGS84)</b>
P-1	84° 57' 39.858" E	20° 58' 29.743" N
P-2	84° 57' 40.399" E	20° 58' 29.858" N
P-3	84° 57' 42.234" E	20° 58' 30.225" N
P-4	84° 57' 44.074" E	20° 58' 30.960" N
P-5	84° 57' 44.203" E	20° 58' 30.990" N
P-6	84° 57' 45.916" E	20° 58' 31.269" N
P-7	84° 57' 47.179" E	20° 58' 31.419" N
P-8	84° 57' 49.020" E	20° 58' 31.422" N
P-9	84° 57' 52.097" E	20° 58' 31.300" N
P-10	84° 57' 53.593" E	20° 58' 30.881" N
P-11	84° 57' 54.326" E	20° 58' 30.443" N
P-12	84° 57' 55.787" E	20° 58' 29.815" N
P-13	84° 57' 57.655" E	20° 58' 29.185" N
P-14	84° 57' 58.526" E	20° 58' 29.138" N
P-15	84° 57' 59.985" E	20° 58' 29.234" N
P-16	84° 58' 2.161" E	20° 58' 29.638" N
P-17	84° 58' 3.557" E	20° 58' 30.145" N
P-18	84° 58' 5.825" E	20° 58' 31.372" N
P-19	84° 58' 7.604" E	20° 58' 32.338" N
P-20	84° 58' 8.527" E	20° 58' 32.831" N
P-21	84° 58' 8.524" E	20° 58' 32.439" N
P-22	84° 58' 8.507" E	20° 58' 30.696" N
P-23	84° 58' 8.515" E	20° 58' 30.507" N
P-24	84° 58' 8.606" E	20° 58' 28.956" N
P-25	84° 58' 8.628" E	20° 58' 26.418" N
P-26	84° 58' 8.691" E	20° 58' 22.562" N
P-27	84° 58' 8.778" E	20° 58' 19.623" N
P-28	84° 58' 8.804" E	20° 58' 17.589" N
P-29	84° 58' 8.886" E	20° 58' 14.091" N
P-30	84° 58' 8.934" E	20° 58' 11.728" N
P-31	84° 58' 9.004" E	20° 58' 8.656" N
P-32	84° 58' 9.090" E	20° 58' 6.081" N
P-33	84° 58' 9.170" E	20° 58' 2.251" N
P-34	84° 58' 9.313" E	20° 57' 58.059" N
P-35	84° 58' 9.338" E	20° 57' 55.471" N
P-36	84° 58' 9.428" E	20° 57' 52.367" N
P-37	84° 58' 9.506" E	20° 57' 49.318" N
P-38	84° 58' 9.588" E	20° 57' 45.814" N
P-39	84° 58' 9.631" E	20° 57' 43.805" N
P-40	84° 58' 9.716" E	20° 57' 39.761" N
P-41	84° 58' 9.765" E	20° 57' 37.778" N
P-42	84° 58' 9.884" E	20° 57' 33.506" N
P-43	84° 58' 9.964" E	20° 57' 31.013" N
P-44	84° 58' 10.029" E	20° 57' 26.962" N
P-45	84° 58' 10.031" E	20° 57' 26.894" N
P-46	84° 58' 10.091" E	20° 57' 24.861" N
P-47	84° 58' 10.200" E	20° 57' 20.880" N

**Provisional Co-ordinates of Cardinal Points for Utkal-B2 Block**

<b>Point No.</b>	<b>Longitude (WGS84)</b>	<b>Latitude (WGS84)</b>
P-48	84° 58' 10.244" E	20° 57' 19.068" N
P-49	84° 58' 10.384" E	20° 57' 13.918" N
P-50	84° 58' 10.481" E	20° 57' 11.579" N
P-51	84° 58' 10.501" E	20° 57' 10.923" N
P-52	84° 58' 10.547" E	20° 57' 10.264" N
P-53	84° 58' 8.913" E	20° 57' 12.119" N
P-54	84° 58' 9.105" E	20° 57' 13.391" N
P-55	84° 58' 9.296" E	20° 57' 14.525" N
P-56	84° 58' 9.319" E	20° 57' 19.024" N
P-57	84° 58' 9.182" E	20° 57' 23.051" N
P-58	84° 58' 8.942" E	20° 57' 24.111" N
P-59	84° 58' 8.403" E	20° 57' 25.534" N
P-60	84° 58' 7.665" E	20° 57' 26.505" N
P-61	84° 58' 5.989" E	20° 57' 27.857" N
P-62	84° 58' 3.186" E	20° 57' 30.387" N
P-63	84° 58' 1.473" E	20° 57' 31.671" N
P-64	84° 58' 0.567" E	20° 57' 33.053" N
P-65	84° 57' 59.479" E	20° 57' 34.643" N
P-66	84° 57' 58.063" E	20° 57' 36.475" N
P-67	84° 57' 56.944" E	20° 57' 38.822" N
P-68	84° 57' 54.952" E	20° 57' 42.446" N
P-69	84° 57' 53.014" E	20° 57' 46.889" N
P-70	84° 57' 51.757" E	20° 57' 50.424" N
P-71	84° 57' 51.547" E	20° 57' 53.135" N
P-72	84° 57' 50.978" E	20° 57' 55.694" N
P-73	84° 57' 50.046" E	20° 57' 59.932" N
P-74	84° 57' 49.363" E	20° 58' 4.350" N
P-75	84° 57' 48.753" E	20° 58' 7.838" N
P-76	84° 57' 48.005" E	20° 58' 10.871" N
P-77	84° 57' 47.238" E	20° 58' 16.382" N
P-78	84° 57' 46.682" E	20° 58' 20.744" N
P-79	84° 57' 45.994" E	20° 58' 21.884" N
P-80	84° 57' 44.721" E	20° 58' 23.269" N
P-81	84° 57' 42.644" E	20° 58' 24.933" N
P-82	84° 57' 40.167" E	20° 58' 27.013" N
P-83	84° 57' 39.701" E	20° 58' 28.393" N
P-84	84° 57' 39.858" E	20° 58' 29.743" N