

**UTKAL - C COAL BLOCK SUMMARY  
PART A**

Sr. No	Features	Details
<b>1. Location</b>		
	Coal Block	<b>Utkal- C</b>
	Latitude	20° 56' 12" N-20° 58' 47" N (Provisional)
	Longitude	84° 57' 6" E-84° 59' 0" E (Provisional)
	Topo Sheet No.	73 D/13
	Coalfield	Talcher
	Villages	Raijharan (part), Tangara Sahi and Gulgadia (part) in the easter part and Dubamoliam in the western extremity
	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 (27 km).
	Road	Connected by all-weather road to Angul (22km).
	Airport	
<b>3. Area</b>		
	Geological Block Area	7.53 sq.km. (As per Shape file; Refer Note No. 3)
	Green Cover	Approx. 19% (As per FSI map)
	Area excluding green cover	Approx. 81% (As per FSI map)
<b>4. Climate and Topography</b>		
	Average Annual Rainfall	1.5 cm in January to 33.1 cm in August
	Temperature (Min. — Max.)	9° - 49°
	Local Surface Drainage Channels	The main drainage of the area is controlled by the southerly flowing Brahmani river situated in the eastern extremity of the Talcher coalfield which is fed by seasonal nalas viz; Tikra Jhor, Singhada Jhor, Bangaru Jhor, Nandira Jhor and a few other nalas. From the northern and southern boundaries of Utkal – C block, the Brahmani river lies eastwards at a distance of 17 Km. and 20 Km., respectively. Singhada Jhor flows eastwards in the northern extremity of the block and forms the northern boundary. Few small nalas viz., Ghordia nala and 6 other unspecified small nalas, pass through the block and dischargest into Singhada Jhor. Small ponds and dug wells are also being used for irrigation and drinking water needs.
	Rivers	Brahmani River
<b>5. Exploration</b>		
	Status	Explored
	Exploration Agency	CMPDI, November 1999

	Total Number of Boreholes with meterage	96 Boreholes; 14364.00 km			
	Borehole Density	Approx. 12 (11.7 exact) Boreholes /sq.km.			
	General Dip of Seams	The dip is 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	1.10 -12.94	8.30 – 39.60	5.0005	F-G
	X	1.00 – 5.56	6.10 – 59.31	3.2304	F-G
	IX	21.29 – 36.75	10.15 – 99.74	48.4061	F-G
	VIII	3.69 – 12.73	6.00 – 132.78	18.7335	F-G
	IX +VIII	38.02 – 47.95	12.20 – 95.09	-	E-F
	VIIIB	2.00 – 5.60	9.37 – 145.62	7.8382	D-G
	VIIA	0.35 – 5.41	16.11 – 153.96	3.5168	E-G
	VIB	0.05 – 3.15	35.79 – 169.08	1.2297	D-G
	VB	0.30 – 5.52	13.54 – 175.36	8.4524	E-G
	VA	0.76 – 5.06	16.65 – 181.66	7.1125	D-G
	IVB	0.17 - 4.74	17.85 – 189.71	8.2867	F-G
	IIIE (TOP)	0.25 – 3.87	19.52 – 201.67	7.9586	D-G
	IIIE (BOT)	0.20 – 9.21	22.00 – 205.92	15.3999	D-G
	IIID	0.55 – 9.82	10.09 – 212.70	21.0189	E-G
	IIIA (TOP)	0.13 – 3.31	8.90 – 220.60	5.0250	D-G
	IIIA (BOT)	0.10 – 2.78	10.50 – 223.26	4.0239	C-G
	III (ETOP + EBOT+ D + A)	20.40 -20.52	157.15 – 157.30	-	G
	III (E TOP + E BOT + D)	13.96 – 17.06	116.92 -129.07	-	F-G
	III (E TOP + E BOT)	5.72	30.11	-	
	III (E BOT + D)	9.00 – 15.12	39.79 – 160.35	-	F-G
	III (E BOT = D + A TOP)	14.51 – 15.20	135.24 – 163.24	-	F
	IIIE	0.13 – 9.64	14.35 – 225.59	18.0191	D-Ungr
	IID	0.66 – 3.20	106.85 – 202.40	1.3031	F-G
	IIC	0.20 – 0.90	57.50 – 209.74	0.3515	F-G
	IIB	0.15 – 2.10	51.75 – 265.35	5.7765	C-G
	IIA	0.09 – 1.60	47.29 – 268.06	5.6641	E-G
		<b>Total</b>		<b>196.3474</b>	
As per UHV based reserve estimation, 12.4417MT reserves under “Ungraded” category are also given in Section 15 (Geological Reserves) of salient features under page-VIII of the Geological Report.					
<b>7.</b>	<b>Surface Constraints</b>	SH-63 marks the eastern boundary of the block. Reservoir in the southern part.			
<b>8.</b>	<b>Grade of coal</b>	G12 (Provisional) based on weighted average grade of grade-wise resources given in the GR. 12.4417 MT ungraded coal resources not considered in the weighted average grade calculation.			
<b>9.</b>	<b>Decision Support System (DSS) Analysis</b>	Wildlife info: Polygon touches wildlife habitat of Sloth Bear-Inviolate			
<b>10.</b>	<b>Eco Sensitive Zone (ESZ) Analysis</b>	Approx 50 km from Badrama WLS and Khalasuni WLS ESZ (Final) and 12 Km from Mahanadi Elephant Reserve.			

## PART B

Sr. No.	Features	Details
<b>1.</b>	<b>Previous Allocation</b>	
	Name and Address of Allocatee	Utkal Coal Limited, IMFA Building, Bomikhal, P.O. Rasulgarh, Bubneshwar, PIN: 751010
<b>2.</b>	<b>Target Capacity as per Mining Plan</b>	<b>3.37 MTPA</b>
<b>3.</b>	<b>Status of Clearances/Approvals</b>	
	Mining Plan/ Mine Closure Plan	13016 Date 23/06/2005
	Forest Clearance	8-25/2010-FC Date: 7/10/2011 8-25/2010-FC Date: 2/05/2012 8-25/2010-FC Date: 23/05/2012
	Environmental Clearance	J-1105/134/2006-IA.II(M) Dated 5/10/2006 Modification to above Dated 28/07/2009
	Mining Lease	Not available
	Land Acquisition	142.54 Ac(Govt ), 855.63 Ac(Pvt ),371.55 Ac (Forest)
	No. of PAPs as per Mining Plan	143(Rehabilitated and Resettled)
<b>4.</b>	Surface Infrastructure already built, if any.	R&R Colony, Site administrative office, Washery boundary wall,( Annexure I)

**Note:**

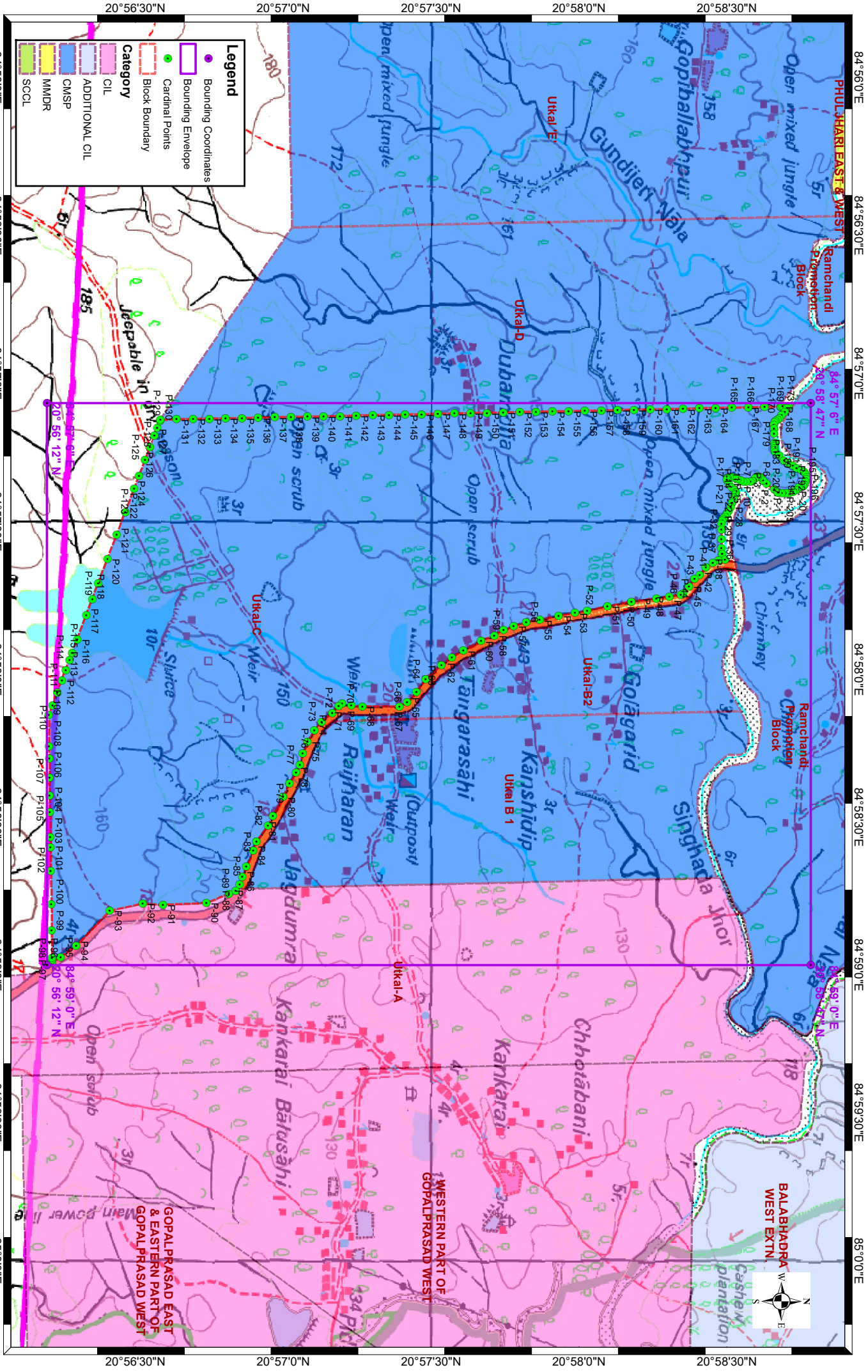
1. The above data is compiled from Geological Report, Mining Plan and the data furnished by the prior allottee in Annexure-I/II, as available. For clarifications with regard to above data, please refer aforesaid source documents.
2. The boundary of the block has been taken from GR after conversion to WGS84 system by feature matching. The block boundary is provisional and the cardinal points, bounding co-ordinates are approximate.
3. There 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.

Utkal-C Block, Talcher Coalfield

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Note: Data is in WGS84 coordinate system.

**Provisional Cardinal Points for Utkal C Block**

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-1	84° 57' 24.108" E	20° 58' 40.354" N
P-2	84° 57' 23.575" E	20° 58' 39.623" N
P-3	84° 57' 22.389" E	20° 58' 38.067" N
P-4	84° 57' 21.639" E	20° 58' 37.336" N
P-5	84° 57' 21.086" E	20° 58' 36.772" N
P-6	84° 57' 20.867" E	20° 58' 36.332" N
P-7	84° 57' 20.846" E	20° 58' 36.034" N
P-8	84° 57' 21.335" E	20° 58' 35.699" N
P-9	84° 57' 21.803" E	20° 58' 35.217" N
P-10	84° 57' 21.918" E	20° 58' 34.774" N
P-11	84° 57' 21.988" E	20° 58' 33.946" N
P-12	84° 57' 21.964" E	20° 58' 33.337" N
P-13	84° 57' 21.685" E	20° 58' 32.766" N
P-14	84° 57' 21.382" E	20° 58' 32.128" N
P-15	84° 57' 21.221" E	20° 58' 31.648" N
P-16	84° 57' 21.079" E	20° 58' 31.076" N
P-17	84° 57' 21.016" E	20° 58' 30.522" N
P-18	84° 57' 21.112" E	20° 58' 30.170" N
P-19	84° 57' 21.269" E	20° 58' 30.040" N
P-20	84° 57' 21.564" E	20° 58' 30.020" N
P-21	84° 57' 22.513" E	20° 58' 30.402" N
P-22	84° 57' 23.069" E	20° 58' 31.009" N
P-23	84° 57' 23.595" E	20° 58' 31.579" N
P-24	84° 57' 24.150" E	20° 58' 31.835" N
P-25	84° 57' 24.485" E	20° 58' 31.759" N
P-26	84° 57' 25.213" E	20° 58' 31.402" N
P-27	84° 57' 26.198" E	20° 58' 31.081" N
P-28	84° 57' 27.064" E	20° 58' 30.761" N
P-29	84° 57' 27.832" E	20° 58' 30.368" N
P-30	84° 57' 28.579" E	20° 58' 29.918" N
P-31	84° 57' 29.031" E	20° 58' 29.582" N
P-32	84° 57' 29.463" E	20° 58' 29.246" N
P-33	84° 57' 29.837" E	20° 58' 29.040" N
P-34	84° 57' 30.507" E	20° 58' 28.906" N
P-35	84° 57' 31.612" E	20° 58' 28.881" N
P-36	84° 57' 33.646" E	20° 58' 28.869" N
P-37	84° 57' 35.475" E	20° 58' 28.879" N
P-38	84° 57' 36.584" E	20° 58' 29.039" N
P-39	84° 57' 37.734" E	20° 58' 29.588" N
P-40	84° 57' 37.868" E	20° 58' 28.301" N
P-41	84° 57' 38.336" E	20° 58' 27.128" N
P-42	84° 57' 39.279" E	20° 58' 25.712" N
P-43	84° 57' 40.846" E	20° 58' 24.463" N
P-44	84° 57' 41.608" E	20° 58' 23.426" N
P-45	84° 57' 43.249" E	20° 58' 22.280" N
P-46	84° 57' 44.670" E	20° 58' 21.136" N
P-47	84° 57' 44.923" E	20° 58' 20.687" N

**Provisional Cardinal Points for Utkal C Block**

P-48	84° 57' 45.199" E	20° 58' 18.311" N
P-49	84° 57' 45.657" E	20° 58' 15.658" N
P-50	84° 57' 46.252" E	20° 58' 10.628" N
P-51	84° 57' 47.235" E	20° 58' 5.718" N
P-52	84° 57' 48.131" E	20° 58' 1.634" N
P-53	84° 57' 48.590" E	20° 57' 59.188" N
P-54	84° 57' 49.153" E	20° 57' 55.847" N
P-55	84° 57' 49.969" E	20° 57' 51.988" N
P-56	84° 57' 50.426" E	20° 57' 49.232" N
P-57	84° 57' 51.288" E	20° 57' 46.749" N
P-58	84° 57' 52.115" E	20° 57' 44.644" N
P-59	84° 57' 53.128" E	20° 57' 42.780" N
P-60	84° 57' 54.282" E	20° 57' 40.089" N
P-61	84° 57' 56.198" E	20° 57' 36.498" N
P-62	84° 57' 57.610" E	20° 57' 34.149" N
P-63	84° 57' 59.171" E	20° 57' 32.040" N
P-64	84° 58' 2.025" E	20° 57' 28.874" N
P-65	84° 58' 4.667" E	20° 57' 26.965" N
P-66	84° 58' 6.669" E	20° 57' 25.103" N
P-67	84° 58' 7.528" E	20° 57' 23.506" N
P-68	84° 58' 7.567" E	20° 57' 16.021" N
P-69	84° 58' 7.368" E	20° 57' 13.757" N
P-70	84° 58' 6.988" E	20° 57' 11.909" N
P-71	84° 58' 7.487" E	20° 57' 11.175" N
P-72	84° 58' 8.897" E	20° 57' 9.876" N
P-73	84° 58' 10.622" E	20° 57' 7.714" N
P-74	84° 58' 12.352" E	20° 57' 6.284" N
P-75	84° 58' 14.723" E	20° 57' 4.850" N
P-76	84° 58' 17.098" E	20° 57' 3.889" N
P-77	84° 58' 19.410" E	20° 57' 3.307" N
P-78	84° 58' 20.980" E	20° 57' 2.574" N
P-79	84° 58' 23.132" E	20° 57' 1.219" N
P-80	84° 58' 25.907" E	20° 56' 59.928" N
P-81	84° 58' 29.812" E	20° 56' 57.839" N
P-82	84° 58' 31.747" E	20° 56' 56.863" N
P-83	84° 58' 34.991" E	20° 56' 54.538" N
P-84	84° 58' 36.817" E	20° 56' 53.881" N
P-85	84° 58' 40.013" E	20° 56' 52.441" N
P-86	84° 58' 42.113" E	20° 56' 51.654" N
P-87	84° 58' 43.712" E	20° 56' 51.085" N
P-88	84° 58' 44.911" E	20° 56' 50.278" N
P-89	84° 58' 45.578" E	20° 56' 48.886" N
P-90	84° 58' 47.379" E	20° 56' 44.366" N
P-91	84° 58' 47.763" E	20° 56' 35.533" N
P-92	84° 58' 47.537" E	20° 56' 31.420" N
P-93	84° 58' 49.010" E	20° 56' 24.727" N
P-94	84° 58' 56.143" E	20° 56' 17.932" N
P-95	84° 58' 58.433" E	20° 56' 14.783" N

**Provisional Cardinal Points for Utkal C Block**

P-96	84° 58' 59.625" E	20° 56' 13.025" N
P-97	84° 58' 58.982" E	20° 56' 12.994" N
P-98	84° 58' 58.554" E	20° 56' 12.979" N
P-99	84° 58' 53.069" E	20° 56' 12.948" N
P-100	84° 58' 47.685" E	20° 56' 12.853" N
P-101	84° 58' 40.932" E	20° 56' 12.764" N
P-102	84° 58' 36.157" E	20° 56' 12.731" N
P-103	84° 58' 33.995" E	20° 56' 12.664" N
P-104	84° 58' 29.052" E	20° 56' 12.617" N
P-105	84° 58' 25.560" E	20° 56' 12.547" N
P-106	84° 58' 21.948" E	20° 56' 12.532" N
P-107	84° 58' 18.047" E	20° 56' 12.478" N
P-108	84° 58' 15.571" E	20° 56' 12.425" N
P-109	84° 58' 9.313" E	20° 56' 12.356" N
P-110	84° 58' 7.292" E	20° 56' 13.142" N
P-111	84° 58' 4.737" E	20° 56' 14.109" N
P-112	84° 58' 2.243" E	20° 56' 15.029" N
P-113	84° 58' 0.160" E	20° 56' 15.800" N
P-114	84° 57' 58.103" E	20° 56' 16.591" N
P-115	84° 57' 56.746" E	20° 56' 17.089" N
P-116	84° 57' 53.908" E	20° 56' 18.155" N
P-117	84° 57' 49.035" E	20° 56' 19.978" N
P-118	84° 57' 45.814" E	20° 56' 21.194" N
P-119	84° 57' 42.594" E	20° 56' 22.411" N
P-120	84° 57' 37.631" E	20° 56' 24.288" N
P-121	84° 57' 32.635" E	20° 56' 26.166" N
P-122	84° 57' 28.109" E	20° 56' 27.904" N
P-123	84° 57' 23.391" E	20° 56' 29.660" N
P-124	84° 57' 20.727" E	20° 56' 30.679" N
P-125	84° 57' 17.505" E	20° 56' 31.918" N
P-126	84° 57' 14.929" E	20° 56' 32.894" N
P-127	84° 57' 12.599" E	20° 56' 33.796" N
P-128	84° 57' 10.994" E	20° 56' 34.367" N
P-129	84° 57' 9.578" E	20° 56' 34.954" N
P-130	84° 57' 9.374" E	20° 56' 35.001" N
P-131	84° 57' 9.304" E	20° 56' 38.316" N
P-132	84° 57' 9.234" E	20° 56' 41.631" N
P-133	84° 57' 9.165" E	20° 56' 44.946" N
P-134	84° 57' 9.095" E	20° 56' 48.261" N
P-135	84° 57' 9.025" E	20° 56' 51.576" N
P-136	84° 57' 8.955" E	20° 56' 54.891" N
P-137	84° 57' 8.886" E	20° 56' 58.206" N
P-138	84° 57' 8.816" E	20° 57' 1.521" N
P-139	84° 57' 8.746" E	20° 57' 4.836" N
P-140	84° 57' 8.676" E	20° 57' 8.151" N
P-141	84° 57' 8.607" E	20° 57' 11.466" N
P-142	84° 57' 8.537" E	20° 57' 14.781" N
P-143	84° 57' 8.467" E	20° 57' 18.096" N

**Provisional Cardinal Points for Utkal C Block**

P-144	84° 57' 8.397" E	20° 57' 21.411" N
P-145	84° 57' 8.328" E	20° 57' 24.726" N
P-146	84° 57' 8.258" E	20° 57' 28.041" N
P-147	84° 57' 8.188" E	20° 57' 31.356" N
P-148	84° 57' 8.118" E	20° 57' 34.671" N
P-149	84° 57' 8.049" E	20° 57' 37.986" N
P-150	84° 57' 7.979" E	20° 57' 41.301" N
P-151	84° 57' 7.909" E	20° 57' 44.616" N
P-152	84° 57' 7.839" E	20° 57' 47.931" N
P-153	84° 57' 7.769" E	20° 57' 51.246" N
P-154	84° 57' 7.700" E	20° 57' 54.561" N
P-155	84° 57' 7.630" E	20° 57' 57.876" N
P-156	84° 57' 7.560" E	20° 58' 1.191" N
P-157	84° 57' 7.490" E	20° 58' 4.506" N
P-158	84° 57' 7.420" E	20° 58' 7.821" N
P-159	84° 57' 7.351" E	20° 58' 11.136" N
P-160	84° 57' 7.281" E	20° 58' 14.451" N
P-161	84° 57' 7.211" E	20° 58' 17.766" N
P-162	84° 57' 7.141" E	20° 58' 21.081" N
P-163	84° 57' 7.071" E	20° 58' 24.396" N
P-164	84° 57' 7.002" E	20° 58' 27.711" N
P-165	84° 57' 6.932" E	20° 58' 31.026" N
P-166	84° 57' 6.862" E	20° 58' 34.341" N
P-167	84° 57' 6.792" E	20° 58' 37.656" N
P-168	84° 57' 6.722" E	20° 58' 40.971" N
P-169	84° 57' 6.722" E	20° 58' 40.980" N
P-170	84° 57' 6.719" E	20° 58' 40.980" N
P-171	84° 57' 6.630" E	20° 58' 41.279" N
P-172	84° 57' 6.645" E	20° 58' 42.224" N
P-173	84° 57' 6.649" E	20° 58' 42.501" N
P-174	84° 57' 7.014" E	20° 58' 42.225" N
P-175	84° 57' 7.753" E	20° 58' 41.719" N
P-176	84° 57' 8.418" E	20° 58' 41.087" N
P-177	84° 57' 9.050" E	20° 58' 40.610" N
P-178	84° 57' 9.422" E	20° 58' 40.293" N
P-179	84° 57' 9.640" E	20° 58' 39.884" N
P-180	84° 57' 9.868" E	20° 58' 39.682" N
P-181	84° 57' 10.309" E	20° 58' 39.536" N
P-182	84° 57' 11.187" E	20° 58' 39.545" N
P-183	84° 57' 12.224" E	20° 58' 39.546" N
P-184	84° 57' 13.994" E	20° 58' 39.659" N
P-185	84° 57' 14.689" E	20° 58' 39.666" N
P-186	84° 57' 15.214" E	20° 58' 39.663" N
P-187	84° 57' 15.568" E	20° 58' 39.707" N
P-188	84° 57' 15.899" E	20° 58' 39.854" N
P-189	84° 57' 16.636" E	20° 58' 40.616" N
P-190	84° 57' 17.631" E	20° 58' 41.549" N
P-191	84° 57' 18.138" E	20° 58' 42.369" N



### **Provisional Cardinal Points for Utkal C Block**

P-192	84° 57' 18.692" E	20° 58' 43.410" N
P-193	84° 57' 19.126" E	20° 58' 44.140" N
P-194	84° 57' 19.602" E	20° 58' 45.107" N
P-195	84° 57' 19.996" E	20° 58' 45.654" N
P-196	84° 57' 20.494" E	20° 58' 46.093" N
P-197	84° 57' 20.948" E	20° 58' 46.262" N
P-198	84° 57' 21.375" E	20° 58' 46.190" N
P-199	84° 57' 21.973" E	20° 58' 45.992" N
P-200	84° 57' 22.583" E	20° 58' 45.713" N
P-201	84° 57' 22.801" E	20° 58' 45.482" N
P-202	84° 57' 22.920" E	20° 58' 44.965" N
P-203	84° 57' 23.149" E	20° 58' 44.539" N
P-204	84° 57' 23.659" E	20° 58' 44.008" N
P-205	84° 57' 23.949" E	20° 58' 43.444" N
P-206	84° 57' 24.241" E	20° 58' 42.647" N
P-207	84° 57' 24.314" E	20° 58' 41.913" N
P-208	84° 57' 24.231" E	20° 58' 41.161" 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.