

SITANALA COAL BLOCK SUMMARY

PART A

Sr. No	Features	Details
1.	Location	
	Coal Block	Sitanala
	Latitude	23° 39' 3" to 23° 40' 23" N (Provisional)
	Longitude	86° 23' 45" to 86° 25' 1" E (Provisional)
	Topo Sheet No.	73 I/6
	Coalfield	Jharia
	Villages	Sitanala, Dhekbera, Pathargara, Shib babudih, Banshara, Bhowra
	Tehsil/Taluka	Chandankiyari
	District	Bokaro
	State	Jharkhand
2.	Connectivity with Block	
	Nearest Rail Head	Nearest railway station Shibbabudih on the Bhojudih-Talogoria-Mohuda line of south eastern railway is 2 km from south western part of the block. The Bhowra railway station to the north of the block on Sudamdih-Mohuda railway is located at a distance of about 1 km across the river Damodar.
	Road	The area is approachable by all-weather road from Dhanbad and Sindri. The Dhanbad-Sindri road is about 3 km across the river Damodar and Dhanbad-Tatanagar road via Purulia passes through the Sitanala block.
	Airport	An air strip which is occasionally used by the TISCO is present in the south Bhowra block across the river Damodar
3.	Area	
	Geological Block Area	3.2 sq.km. (As per shapefile, Refer Note below)
	Forest Area	Approx. 15 % (as per FSI map)
	Non-Forest Area	Approx. 85 %
4.	Climate and Topography	
	Average Annual Rainfall	Not provided in GR
	Temperature (Min. — Max.)	Not Provided in GR
	Local Surface Drainage Channels	Drainage of the block is controlled by Damodar river in the north and by small seasonal gullies. The area is marked by the presence of number of ponds and water holes of varying dimentions.
	Rivers	Damodar river
5.	Exploration	
	Status	Explored in Detail
	Exploration Agency	MECL
	Total Number of Boreholes with meterage	31 Boreholes; 21129.40m

	Borehole Density	Approx. 9.8 Boreholes/sq.km.			
	General Dip of Seams	25-45 Degree Southerly.			
	General Strike Direction	General trend is NW-SE to WNW-ESE			
6.	Coal Seams & Reserve				
	Coal Seams	Thickness Range (m)	Depth Range (m)	Resources (MT)	Grade
	SN/L-7	0.17-1.21		0.000	WIV
	SN/L-6	0.26-1.21		0.135	WI
	XVIII B	0.40-2.37		2.211	WI
	XVIII A	0.10-1.67		1.494	SI
	XVIII TOP	0.20-3.37		3.054	SII
	XVIII BOT	0.19-2.96		0.809	SII
	SN/L-5	0.20-2.97		3.588	SII
	XVII	1.16-4.62		9.348	SI-WII
	SN/L-4	0.16-1.48		0.000	SI-WII
	XVI TOP (Top Split)	0.10-1.35		1.770	WI
	XVI TOP (Bot Split)	0.03-1.48		0.091	WIII
	XVI MID (Top Split)	0.42-4.21		2.173	SII
	XVI MID (Bot Split)	0.23-2.59		1.936	WIII
	XVI BOT (Top Split)	0.10-1.34		1.318	WII-WIV
	XVI BOT (Bot Split)	0.10-1.42		0.640	SII
	XVI BOT COMB	0.21-4.46		1.800	WI-WIV
	XV A	0.94-5.36		3.667	WI
	XV	5.28-13.36		10.034	SI
	XV TOP BOT	1.35-9.10		1.241	
	XIVA	0.54-3.08		4.472	SI
	SN/L-3	0.59-1.50		0.000	WI-WIV
	XIV/XIII	5.32-14.44		15.999	WI-WIV
	XIV	3.69-5.54		4.839	WIII-WIV
	XIII	0.59-5.44		0.917	WI
	XII/XI	0.79-7.31		11.500	WII
	X/IX	6.35-15.47		25.817	WI-WIII
		Total (In band Net Resources)		108.85	
7.	Surface Constraints	Approx. 18% overlap of Jharia CBM block with the Sitanala Coal block.			
8.	Grade of the block	W-II (Provisional) based on weighted average grade as per data available in GR.			
9.	Decision Support System (DSS) Analysis	Hydrology Info: Polygon touches major river- Damodar River.			
10.	Eco Sensitive Zone (ESZ) Analysis	Approx 38 Km from Parasnath WLS ESZ.			

PART B

Sl. No.	Features	Details (As per information submitted by prior allottee)
1.	Previous Allocation	
	Name and Address of Allocatee	Steel Authority of India Ltd.
2.	Mine Capacity as per Mining	0.3 Mty

	Plan	
3.	Status of Clearances/Approvals	
	Mining Plan/ Mine Closure Plan	Approved dated 19.01.2009
	Forest Clearance	--
	Environmental Clearance	Dated 20.12.2010
	Mining Lease	--
	Land Acquisition	--
4.	No. of PAFs	--

Note:

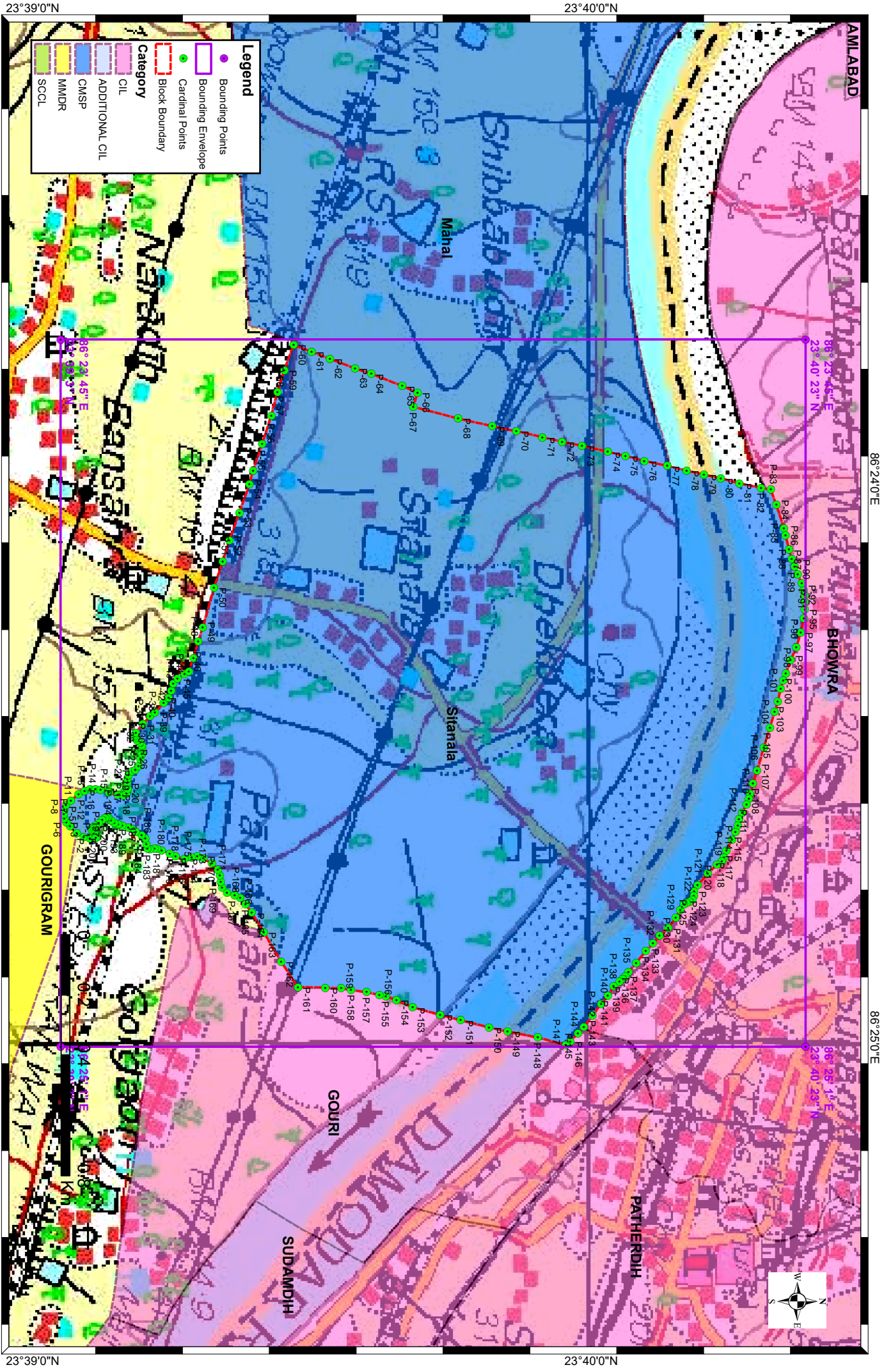
1. The above data is compiled from Geological Report, Mining Plan and the data furnished by the prior allottee in Annexure-I/II, as available. For clarifications with regard to above data, please refer aforesaid source documents.
2. The boundary of the block has been taken from GR after conversion to 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.
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.

Sitanala Block, Jharia Coalfield

FOR INTERNAL/RESTRICTED USE ONLY



86°24'0"E

86°25'0"E

23°40'0"N

23°40'0"N

23°39'0"N

23°39'0"N

Note: Coordinates are in WGS84 datum.

86°24'0"E

86°25'0"E

Provisional Cardinal Points for Sitanala Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-1	86° 24' 38.529" E	23° 39' 6.789" N
P-2	86° 24' 38.611" E	23° 39' 6.144" N
P-3	86° 24' 38.465" E	23° 39' 5.489" N
P-4	86° 24' 38.039" E	23° 39' 4.748" N
P-5	86° 24' 37.276" E	23° 39' 4.022" N
P-6	86° 24' 36.904" E	23° 39' 3.608" N
P-7	86° 24' 36.494" E	23° 39' 3.400" N
P-8	86° 24' 36.009" E	23° 39' 3.329" N
P-9	86° 24' 35.542" E	23° 39' 3.396" N
P-10	86° 24' 35.036" E	23° 39' 3.584" N
P-11	86° 24' 34.530" E	23° 39' 4.132" N
P-12	86° 24' 33.872" E	23° 39' 4.921" N
P-13	86° 24' 33.496" E	23° 39' 5.574" N
P-14	86° 24' 33.288" E	23° 39' 6.141" N
P-15	86° 24' 33.304" E	23° 39' 6.743" N
P-16	86° 24' 33.376" E	23° 39' 7.294" N
P-17	86° 24' 33.708" E	23° 39' 8.190" N
P-18	86° 24' 33.947" E	23° 39' 9.155" N
P-19	86° 24' 34.000" E	23° 39' 9.757" N
P-20	86° 24' 33.774" E	23° 39' 10.100" N
P-21	86° 24' 33.288" E	23° 39' 10.202" N
P-22	86° 24' 32.635" E	23° 39' 10.165" N
P-23	86° 24' 32.224" E	23° 39' 10.180" N
P-24	86° 24' 31.831" E	23° 39' 10.299" N
P-25	86° 24' 31.418" E	23° 39' 10.711" N
P-26	86° 24' 31.249" E	23° 39' 11.020" N
P-27	86° 24' 30.855" E	23° 39' 11.362" N
P-28	86° 24' 30.125" E	23° 39' 11.583" N
P-29	86° 24' 29.527" E	23° 39' 11.736" N
P-30	86° 24' 28.948" E	23° 39' 11.768" N
P-31	86° 24' 28.630" E	23° 39' 11.750" N
P-32	86° 24' 28.295" E	23° 39' 11.507" N
P-33	86° 24' 28.072" E	23° 39' 11.197" N
P-34	86° 24' 27.830" E	23° 39' 11.041" N
P-35	86° 24' 27.606" E	23° 39' 10.971" N
P-36	86° 24' 27.270" E	23° 39' 11.091" N
P-37	86° 24' 26.332" E	23° 39' 11.827" N
P-38	86° 24' 25.507" E	23° 39' 12.615" N
P-39	86° 24' 25.056" E	23° 39' 13.130" N
P-40	86° 24' 24.043" E	23° 39' 14.055" N
P-41	86° 24' 23.518" E	23° 39' 14.586" N
P-42	86° 24' 22.751" E	23° 39' 14.876" N
P-43	86° 24' 22.003" E	23° 39' 15.097" N
P-44	86° 24' 21.459" E	23° 39' 15.559" N
P-45	86° 24' 20.932" E	23° 39' 16.314" N
P-46	86° 24' 20.706" E	23° 39' 16.761" N
P-47	86° 24' 19.210" E	23° 39' 17.254" N

Provisional Cardinal Points for Sitanala Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-48	86° 24' 17.470" E	23° 39' 17.764" N
P-49	86° 24' 15.936" E	23° 39' 18.274" N
P-50	86° 24' 11.653" E	23° 39' 19.479" N
P-51	86° 24' 8.847" E	23° 39' 20.415" N
P-52	86° 24' 6.621" E	23° 39' 21.112" N
P-53	86° 24' 3.627" E	23° 39' 22.201" N
P-54	86° 24' 0.578" E	23° 39' 23.274" N
P-55	86° 23' 59.081" E	23° 39' 23.664" N
P-56	86° 23' 56.200" E	23° 39' 24.650" N
P-57	86° 23' 53.226" E	23° 39' 25.620" N
P-58	86° 23' 50.682" E	23° 39' 26.298" N
P-59	86° 23' 48.307" E	23° 39' 27.029" N
P-60	86° 23' 45.600" E	23° 39' 28.016" N
P-61	86° 23' 46.351" E	23° 39' 29.946" N
P-62	86° 23' 47.089" E	23° 39' 31.911" N
P-63	86° 23' 48.122" E	23° 39' 34.616" N
P-64	86° 23' 48.693" E	23° 39' 36.356" N
P-65	86° 23' 50.004" E	23° 39' 39.682" N
P-66	86° 23' 50.726" E	23° 39' 41.320" N
P-67	86° 23' 52.241" E	23° 39' 40.878" N
P-68	86° 23' 53.508" E	23° 39' 45.701" N
P-69	86° 23' 54.331" E	23° 39' 49.352" N
P-70	86° 23' 54.861" E	23° 39' 51.935" N
P-71	86° 23' 55.502" E	23° 39' 54.742" N
P-72	86° 23' 55.997" E	23° 39' 56.843" N
P-73	86° 23' 56.436" E	23° 39' 58.979" N
P-74	86° 23' 57.058" E	23° 40' 1.751" N
P-75	86° 23' 57.535" E	23° 40' 3.646" N
P-76	86° 23' 58.068" E	23° 40' 5.678" N
P-77	86° 23' 58.580" E	23° 40' 8.141" N
P-78	86° 23' 59.093" E	23° 40' 10.205" N
P-79	86° 23' 59.533" E	23° 40' 12.085" N
P-80	86° 23' 59.917" E	23° 40' 13.876" N
P-81	86° 24' 0.468" E	23° 40' 15.874" N
P-82	86° 24' 0.962" E	23° 40' 18.216" N
P-83	86° 24' 1.144" E	23° 40' 19.266" N
P-84	86° 24' 2.789" E	23° 40' 19.870" N
P-85	86° 24' 5.270" E	23° 40' 20.654" N
P-86	86° 24' 6.053" E	23° 40' 20.864" N
P-87	86° 24' 7.584" E	23° 40' 21.214" N
P-88	86° 24' 8.591" E	23° 40' 21.493" N
P-89	86° 24' 9.430" E	23° 40' 21.806" N
P-90	86° 24' 10.251" E	23° 40' 22.153" N
P-91	86° 24' 11.220" E	23° 40' 22.604" N
P-92	86° 24' 11.948" E	23° 40' 22.779" N
P-93	86° 24' 12.500" E	23° 40' 22.900" N
P-94	86° 24' 13.200" E	23° 40' 22.900" N

Provisional Cardinal Points for Sitanala Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-95	86° 24' 14.000" E	23° 40' 22.900" N
P-96	86° 24' 15.000" E	23° 40' 22.800" N
P-97	86° 24' 16.508" E	23° 40' 22.470" N
P-98	86° 24' 18.079" E	23° 40' 22.011" N
P-99	86° 24' 19.465" E	23° 40' 21.380" N
P-100	86° 24' 20.887" E	23° 40' 20.887" N
P-101	86° 24' 21.673" E	23° 40' 20.597" N
P-102	86° 24' 22.552" E	23° 40' 20.325" N
P-103	86° 24' 23.898" E	23° 40' 20.003" N
P-104	86° 24' 25.021" E	23° 40' 19.681" N
P-105	86° 24' 26.704" E	23° 40' 19.171" N
P-106	86° 24' 28.856" E	23° 40' 18.508" N
P-107	86° 24' 31.325" E	23° 40' 17.760" N
P-108	86° 24' 32.672" E	23° 40' 17.335" N
P-109	86° 24' 33.832" E	23° 40' 17.030" N
P-110	86° 24' 34.355" E	23° 40' 16.912" N
P-111	86° 24' 34.936" E	23° 40' 16.639" N
P-112	86° 24' 35.835" E	23° 40' 16.177" N
P-113	86° 24' 36.509" E	23° 40' 15.836" N
P-114	86° 24' 37.219" E	23° 40' 15.735" N
P-115	86° 24' 37.893" E	23° 40' 15.480" N
P-116	86° 24' 38.754" E	23° 40' 15.087" N
P-117	86° 24' 39.877" E	23° 40' 14.507" N
P-118	86° 24' 40.663" E	23° 40' 14.234" N
P-119	86° 24' 41.057" E	23° 40' 13.995" N
P-120	86° 24' 41.432" E	23° 40' 13.497" N
P-121	86° 24' 42.408" E	23° 40' 12.486" N
P-122	86° 24' 43.628" E	23° 40' 11.406" N
P-123	86° 24' 44.283" E	23° 40' 11.013" N
P-124	86° 24' 44.769" E	23° 40' 10.981" N
P-125	86° 24' 45.199" E	23° 40' 10.845" N
P-126	86° 24' 45.425" E	23° 40' 10.536" N
P-127	86° 24' 45.557" E	23° 40' 10.206" N
P-128	86° 24' 45.689" E	23° 40' 9.952" N
P-129	86° 24' 46.289" E	23° 40' 9.541" N
P-130	86° 24' 47.113" E	23° 40' 9.079" N
P-131	86° 24' 48.256" E	23° 40' 8.241" N
P-132	86° 24' 49.045" E	23° 40' 7.332" N
P-133	86° 24' 49.889" E	23° 40' 6.612" N
P-134	86° 24' 50.714" E	23° 40' 5.824" N
P-135	86° 24' 51.989" E	23° 40' 4.813" N
P-136	86° 24' 52.983" E	23° 40' 3.974" N
P-137	86° 24' 53.451" E	23° 40' 3.632" N
P-138	86° 24' 53.714" E	23° 40' 3.340" N
P-139	86° 24' 53.958" E	23° 40' 3.014" N
P-140	86° 24' 54.503" E	23° 40' 2.380" N
P-141	86° 24' 55.496" E	23° 40' 1.747" N

Provisional Cardinal Points for Sitanala Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-142	86° 24' 56.396" E	23° 40' 1.045" N
P-143	86° 24' 57.595" E	23° 40' 0.120" N
P-144	86° 24' 58.833" E	23° 39' 59.178" N
P-145	86° 24' 59.564" E	23° 39' 58.544" N
P-146	86° 25' 0.446" E	23° 39' 57.705" N
P-147	86° 25' 0.784" E	23° 39' 57.259" N
P-148	86° 25' 0.000" E	23° 39' 54.227" N
P-149	86° 24' 59.355" E	23° 39' 51.007" N
P-150	86° 24' 58.896" E	23° 39' 49.009" N
P-151	86° 24' 58.144" E	23° 39' 45.978" N
P-152	86° 24' 57.556" E	23° 39' 43.756" N
P-153	86° 24' 56.747" E	23° 39' 40.794" N
P-154	86° 24' 55.989" E	23° 39' 39.070" N
P-155	86° 24' 55.546" E	23° 39' 37.898" N
P-156	86° 24' 55.418" E	23° 39' 37.244" N
P-157	86° 24' 55.125" E	23° 39' 35.866" N
P-158	86° 24' 54.871" E	23° 39' 34.196" N
P-159	86° 24' 54.708" E	23° 39' 33.112" N
P-160	86° 24' 54.641" E	23° 39' 31.425" N
P-161	86° 24' 54.579" E	23° 39' 28.500" N
P-162	86° 24' 51.841" E	23° 39' 26.683" N
P-163	86° 24' 48.693" E	23° 39' 24.813" N
P-164	86° 24' 46.606" E	23° 39' 23.531" N
P-165	86° 24' 45.694" E	23° 39' 22.857" N
P-166	86° 24' 44.987" E	23° 39' 22.269" N
P-167	86° 24' 44.728" E	23° 39' 21.683" N
P-168	86° 24' 44.414" E	23° 39' 20.891" N
P-169	86° 24' 43.912" E	23° 39' 20.355" N
P-170	86° 24' 43.277" E	23° 39' 20.198" N
P-171	86° 24' 42.587" E	23° 39' 20.092" N
P-172	86° 24' 41.990" E	23° 39' 19.883" N
P-173	86° 24' 41.320" E	23° 39' 19.244" N
P-174	86° 24' 40.745" E	23° 39' 18.313" N
P-175	86° 24' 40.580" E	23° 39' 17.658" N
P-176	86° 24' 40.676" E	23° 39' 17.074" N
P-177	86° 24' 40.792" E	23° 39' 16.317" N
P-178	86° 24' 40.553" E	23° 39' 15.353" N
P-179	86° 24' 40.238" E	23° 39' 14.732" N
P-180	86° 24' 39.869" E	23° 39' 13.836" N
P-181	86° 24' 39.684" E	23° 39' 13.353" N
P-182	86° 24' 39.686" E	23° 39' 13.061" N
P-183	86° 24' 39.781" E	23° 39' 12.597" N
P-184	86° 24' 39.689" E	23° 39' 12.321" N
P-185	86° 24' 39.222" E	23° 39' 12.216" N
P-186	86° 24' 38.588" E	23° 39' 12.093" N
P-187	86° 24' 38.291" E	23° 39' 11.696" N
P-188	86° 24' 37.920" E	23° 39' 11.075" N

Provisional Cardinal Points for Sitanala Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-189	86° 24' 37.604" E	23° 39' 10.644" N
P-190	86° 24' 37.438" E	23° 39' 10.282" N
P-191	86° 24' 37.198" E	23° 39' 9.610" N
P-192	86° 24' 37.088" E	23° 39' 9.179" N
P-193	86° 24' 36.959" E	23° 39' 8.783" N
P-194	86° 24' 36.680" E	23° 39' 8.438" N
P-195	86° 24' 36.383" E	23° 39' 8.144" N
P-196	86° 24' 36.327" E	23° 39' 7.989" N
P-197	86° 24' 36.403" E	23° 39' 7.800" N
P-198	86° 24' 36.628" E	23° 39' 7.491" N
P-199	86° 24' 36.985" E	23° 39' 7.097" N
P-200	86° 24' 37.248" E	23° 39' 6.737" N
P-201	86° 24' 37.455" E	23° 39' 6.479" N
P-202	86° 24' 37.624" E	23° 39' 6.360" N
P-203	86° 24' 37.754" E	23° 39' 6.377" N
P-204	86° 24' 37.884" E	23° 39' 6.567" N
P-205	86° 24' 38.014" E	23° 39' 6.757" N
P-206	86° 24' 38.181" E	23° 39' 6.929" N
P-207	86° 24' 38.293" E	23° 39' 6.947" N
P-208	86° 24' 38.462" E	23° 39' 6.913" N

Cardinal points are extracted from the block boundary shapefile using ArcGIS software and are tentative. DGPS survey is required to ascertain the exact cardinal points.