JAREKELA COAL BLOCK SUMMARY

Sr. No.	Features	Details
1.	**Location**	
	Coal Block	**JAREKELA**
	Latitude	22° 04' 58" N to 22° 08' 44" N (Provisional in WGS84)
	Longitude	83° 23' 35" E to 83° 26' 17" E (Provisional in WGS84)
	Topo Sheet No.	64 N/8
	Coalfield	Mand Raigarh
	Villages	Jarekela, Murhinar, Nawapara, Devgarh
	Tehsil/Taluka	Gharghoda
	District	Raigarh
	State	Chhattisgarh
2.	**Connectivity with Block**	
	Nearest Rail Head	Kharsia and Raigarh railway stations on Howrah – Nagpur section of South Eastern Railway are located in the southern periphery of the coalfield.
	Road	Both the rail heads are connected by two tarred roads with Dharamjaygarh and from Dharamjaygarh, the road leads further north to Ambikapur. The distance from Dharamjaygarh to Raigarh and Kharsia rail heads is 75 kms and 60 kms respectively, while the distance between Dharamjaygarh and Ambikapur is 120 kms.
3.	**Area**	
	Geological Block Area	19.07 sq.km. (As per shape file) (Refer Notes)
	Forest Area	2 % (as per FSI Map)
	Non-Forest Area	98 % (as per FSI Map)
4.	**Climate and Topography**	
	Average Annual Rainfall	1620 mm
	Temperature (Min. — Max.)	18° C- 45° C
	Local Surface Drainage Channels	Pajhar Nadi flowing from north to south in the central part of the block, constitutes the main drainage system. Besides, Dighi and Gardharsi nala with its tributary are present in the block. A few ponds are also located in the block.
	Rivers	Pajhar Nadi flowing from north to south in the central part of the block

5.	**Exploration**				
	Status	Regionally Explored (Detail Drilling Exploration Completed-GR under preparation)			
	Exploration Agency	MECL			
	Total Number of Boreholes with meterage	227 Boreholes; 96290.4 m			
	Borehole Density	Approx. 11.9 Boreholes/sq.km.			
	General Dip of Seams	South westerly dip varying from 2- 4°			
	General Strike Direction	The general strike of the beds is NW–SE			
	Faults	As per regional exploration report the block does not show any structural disturbance. However, possibility of minor faults cannot be ruled out.			
6.	**Coal Seams & Reserve**				
	Number of Coal Seams	Thickness Range (m)	Depth Range (m) (Floor)	Geological Reserve (MT)	Grade
	X LA	0.05-0.80	205.59-392.15		
	X TOP	0.07-2.00	220.67-400.77	15.928	F-G
	X BOT	0.10-3.55	201.92-412.89	43.133	E-G
	IX L2	0.12-1.86	240.10- 425.97		
	IX L1	0.10-1.07	223.00- 440.64		
	IX L	0.08-1.10	233.16- 446.99		
	IX	0.13-4.05	248.30- 468.82	67.580	D-G
	VIII	0.08-1.14	281.65- 455.77		
	VIII L	2.13-4.61	280.19- 496.22	112.019	E-F
	VII	3.62-6.70	298.90- 513.00	159.269	F-G
	VI TOP	1.29-3.39	340.89- 500.53	16.770	E-G
	VI BOT	2.22-4.68	346.16- 505.94	27.061	E-F
	VI COMB	2.15-9.90	317.14- 531.44	143.280	E-G
	VI L	0.10-0.66	323.20- 533.68		
	V L4	0.09-1.00	338.71- 569.66		
	V TOP	0.20-1.04	342.60- 577.92		
	V L3	0.31-1.40	344.70- 581.52		
	V L2	0.24-2.50	346.50- 583.50		
	V MID	0.27-1.50	349.00- 585.23		
	V L1	0.25-2.09	354.30- 591.11		
	V BOT	0.35-1.41	357.32- 594.28		
	Total			**585**	
7.	**Surface Constraints**	Pajhar Nadi flowing north to south in the central part of the block. Dighi and Gardharsi nala with its tributary are present in the block.			
8.	**Grade of the block**	G11 (Provisional) based on weighted average grade as per data available in Regional GR.			

Note.

1. Above summary has been prepared based on the report titled ‘Geological Report on Exploration for Coal Jarekela (Promotional) Block Mand-Raigarh Coalfield, District: Raigarh, Chhattisgarh’.
2. Present drilling data is included in Exploration Status.
3. The block boundary is provisional and the cardinal points, bounding co-ordinates are approximate.

Jarekela Block, Mand Raigarh Coalfield

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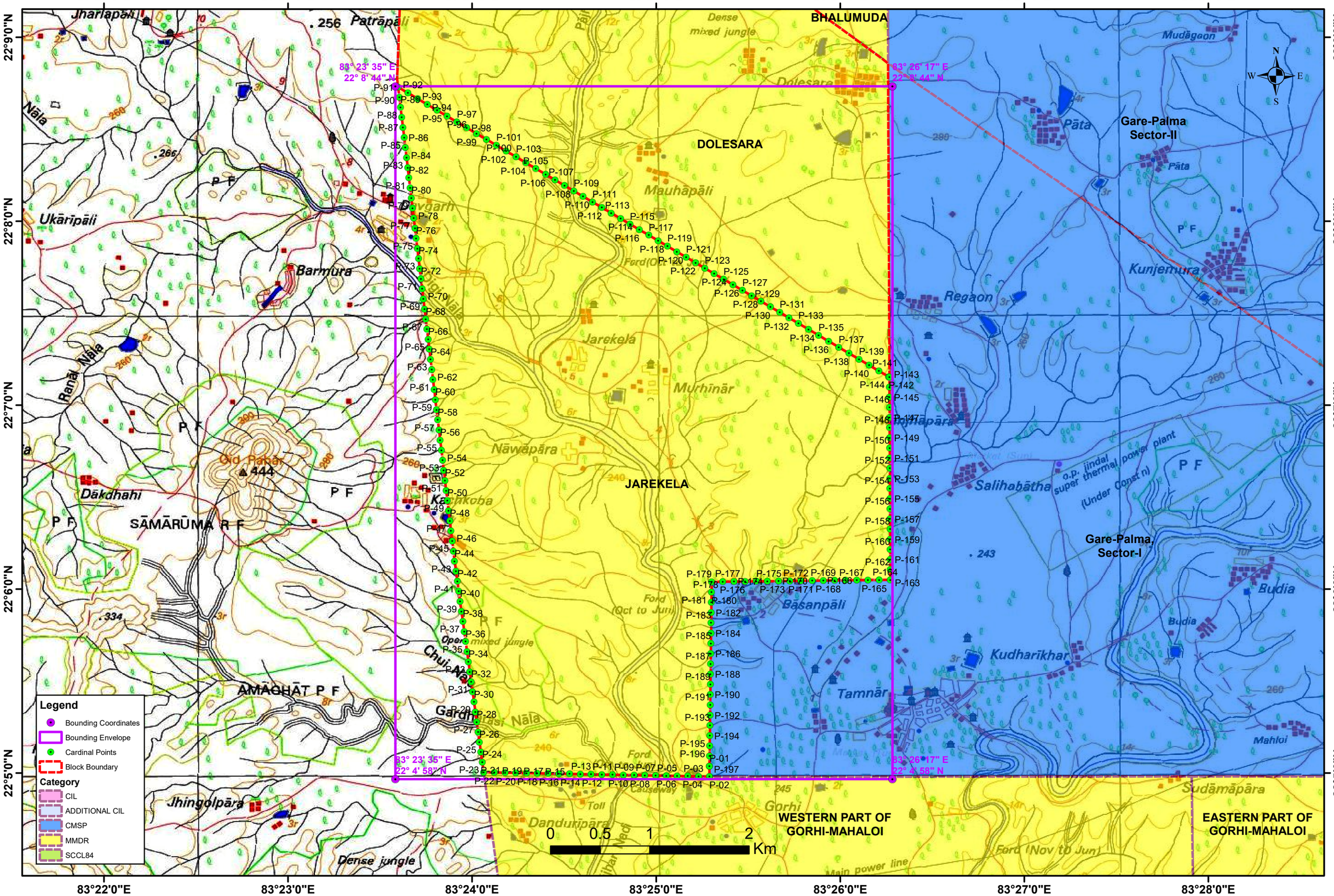

Note: The map is prepared on WGS84 coordinate system.

Provisional Cardinal Points of Jarekela Block		
POINT_ID	LONGITUDE	LATITUDE
P-01	83° 25' 17.373" E	22° 5' 2.191" N
P-02	83° 25' 17.333" E	22° 4' 58.848" N
P-03	83° 25' 13.829" E	22° 4' 58.914" N
P-04	83° 25' 10.326" E	22° 4' 58.981" N
P-05	83° 25' 6.822" E	22° 4' 59.048" N
P-06	83° 25' 3.318" E	22° 4' 59.115" N
P-07	83° 24' 59.814" E	22° 4' 59.181" N
P-08	83° 24' 56.310" E	22° 4' 59.248" N
P-09	83° 24' 52.806" E	22° 4' 59.315" N
P-10	83° 24' 49.303" E	22° 4' 59.381" N
P-11	83° 24' 45.799" E	22° 4' 59.448" N
P-12	83° 24' 42.295" E	22° 4' 59.514" N
P-13	83° 24' 38.791" E	22° 4' 59.581" N
P-14	83° 24' 35.287" E	22° 4' 59.647" N
P-15	83° 24' 31.783" E	22° 4' 59.714" N
P-16	83° 24' 28.280" E	22° 4' 59.780" N
P-17	83° 24' 24.776" E	22° 4' 59.847" N
P-18	83° 24' 21.272" E	22° 4' 59.913" N
P-19	83° 24' 17.768" E	22° 4' 59.980" N
P-20	83° 24' 14.264" E	22° 5' 0.046" N
P-21	83° 24' 10.760" E	22° 5' 0.113" N
P-22	83° 24' 7.256" E	22° 5' 0.179" N
P-23	83° 24' 3.753" E	22° 5' 0.245" N
P-24	83° 24' 3.302" E	22° 5' 3.525" N
P-25	83° 24' 2.851" E	22° 5' 6.804" N
P-26	83° 24' 2.400" E	22° 5' 10.083" N
P-27	83° 24' 1.950" E	22° 5' 13.363" N
P-28	83° 24' 1.499" E	22° 5' 16.642" N
P-29	83° 24' 1.048" E	22° 5' 19.922" N
P-30	83° 24' 0.597" E	22° 5' 23.201" N
P-31	83° 24' 0.147" E	22° 5' 26.481" N
P-32	83° 23' 59.696" E	22° 5' 29.760" N
P-33	83° 23' 59.245" E	22° 5' 33.039" N
P-34	83° 23' 58.794" E	22° 5' 36.319" N
P-35	83° 23' 58.344" E	22° 5' 39.598" N
P-36	83° 23' 57.893" E	22° 5' 42.878" N
P-37	83° 23' 57.442" E	22° 5' 46.157" N
P-38	83° 23' 56.991" E	22° 5' 49.437" N
P-39	83° 23' 56.540" E	22° 5' 52.716" N
P-40	83° 23' 56.090" E	22° 5' 55.995" N
P-41	83° 23' 55.639" E	22° 5' 59.275" N
P-42	83° 23' 55.188" E	22° 6' 2.554" N
P-43	83° 23' 54.737" E	22° 6' 5.834" N
P-44	83° 23' 54.286" E	22° 6' 9.113" N
P-45	83° 23' 53.895" E	22° 6' 12.403" N
P-46	83° 23' 53.503" E	22° 6' 15.693" N
P-47	83° 23' 53.112" E	22° 6' 18.982" N
P-48	83° 23' 52.720" E	22° 6' 22.272" N

Provisional Cardinal Points of Jarekela Block		
POINT_ID	LONGITUDE	LATITUDE
P-49	83° 23' 52.328" E	22° 6' 25.562" N
P-50	83° 23' 51.937" E	22° 6' 28.851" N
P-51	83° 23' 51.545" E	22° 6' 32.141" N
P-52	83° 23' 51.154" E	22° 6' 35.431" N
P-53	83° 23' 50.762" E	22° 6' 38.720" N
P-54	83° 23' 50.371" E	22° 6' 42.010" N
P-55	83° 23' 49.979" E	22° 6' 45.300" N
P-56	83° 23' 49.587" E	22° 6' 48.589" N
P-57	83° 23' 49.196" E	22° 6' 51.879" N
P-58	83° 23' 48.804" E	22° 6' 55.169" N
P-59	83° 23' 48.412" E	22° 6' 58.458" N
P-60	83° 23' 48.021" E	22° 7' 1.748" N
P-61	83° 23' 47.629" E	22° 7' 5.038" N
P-62	83° 23' 47.238" E	22° 7' 8.327" N
P-63	83° 23' 46.846" E	22° 7' 11.617" N
P-64	83° 23' 46.454" E	22° 7' 14.907" N
P-65	83° 23' 46.063" E	22° 7' 18.196" N
P-66	83° 23' 45.671" E	22° 7' 21.486" N
P-67	83° 23' 45.279" E	22° 7' 24.776" N
P-68	83° 23' 44.888" E	22° 7' 28.065" N
P-69	83° 23' 44.496" E	22° 7' 31.355" N
P-70	83° 23' 44.104" E	22° 7' 34.645" N
P-71	83° 23' 43.713" E	22° 7' 37.934" N
P-72	83° 23' 43.321" E	22° 7' 41.224" N
P-73	83° 23' 42.929" E	22° 7' 44.514" N
P-74	83° 23' 42.537" E	22° 7' 47.803" N
P-75	83° 23' 42.146" E	22° 7' 51.093" N
P-76	83° 23' 41.754" E	22° 7' 54.383" N
P-77	83° 23' 41.362" E	22° 7' 57.672" N
P-78	83° 23' 40.971" E	22° 8' 0.962" N
P-79	83° 23' 40.579" E	22° 8' 4.252" N
P-80	83° 23' 40.187" E	22° 8' 7.542" N
P-81	83° 23' 39.795" E	22° 8' 10.831" N
P-82	83° 23' 39.404" E	22° 8' 14.121" N
P-83	83° 23' 39.012" E	22° 8' 17.411" N
P-84	83° 23' 38.620" E	22° 8' 20.700" N
P-85	83° 23' 38.228" E	22° 8' 23.990" N
P-86	83° 23' 37.837" E	22° 8' 27.280" N
P-87	83° 23' 37.445" E	22° 8' 30.569" N
P-88	83° 23' 37.053" E	22° 8' 33.859" N
P-89	83° 23' 36.661" E	22° 8' 37.149" N
P-90	83° 23' 36.269" E	22° 8' 40.438" N
P-91	83° 23' 35.878" E	22° 8' 43.728" N
P-92	83° 23' 39.058" E	22° 8' 41.837" N
P-93	83° 23' 42.238" E	22° 8' 39.945" N
P-94	83° 23' 45.418" E	22° 8' 38.054" N
P-95	83° 23' 48.599" E	22° 8' 36.163" N
P-96	83° 23' 51.815" E	22° 8' 34.262" N

Provisional Cardinal Points of Jarekela Block		
POINT_ID	LONGITUDE	LATITUDE
P-97	83° 23' 55.031" E	22° 8' 32.362" N
P-98	83° 23' 58.247" E	22° 8' 30.461" N
P-99	83° 24' 1.464" E	22° 8' 28.561" N
P-100	83° 24' 4.680" E	22° 8' 26.660" N
P-101	83° 24' 7.896" E	22° 8' 24.759" N
P-102	83° 24' 11.112" E	22° 8' 22.859" N
P-103	83° 24' 14.328" E	22° 8' 20.958" N
P-104	83° 24' 17.544" E	22° 8' 19.058" N
P-105	83° 24' 20.760" E	22° 8' 17.157" N
P-106	83° 24' 23.976" E	22° 8' 15.256" N
P-107	83° 24' 27.033" E	22° 8' 13.453" N
P-108	83° 24' 30.089" E	22° 8' 11.650" N
P-109	83° 24' 33.145" E	22° 8' 9.847" N
P-110	83° 24' 36.201" E	22° 8' 8.043" N
P-111	83° 24' 39.258" E	22° 8' 6.240" N
P-112	83° 24' 42.314" E	22° 8' 4.437" N
P-113	83° 24' 45.370" E	22° 8' 2.633" N
P-114	83° 24' 48.426" E	22° 8' 0.830" N
P-115	83° 24' 51.483" E	22° 7' 59.027" N
P-116	83° 24' 54.539" E	22° 7' 57.223" N
P-117	83° 24' 57.589" E	22° 7' 55.427" N
P-118	83° 25' 0.638" E	22° 7' 53.630" N
P-119	83° 25' 3.688" E	22° 7' 51.834" N
P-120	83° 25' 6.738" E	22° 7' 50.037" N
P-121	83° 25' 9.788" E	22° 7' 48.241" N
P-122	83° 25' 12.837" E	22° 7' 46.444" N
P-123	83° 25' 15.887" E	22° 7' 44.648" N
P-124	83° 25' 18.937" E	22° 7' 42.851" N
P-125	83° 25' 21.986" E	22° 7' 41.055" N
P-126	83° 25' 25.036" E	22° 7' 39.258" N
P-127	83° 25' 28.085" E	22° 7' 37.462" N
P-128	83° 25' 31.135" E	22° 7' 35.665" N
P-129	83° 25' 34.185" E	22° 7' 33.868" N
P-130	83° 25' 37.234" E	22° 7' 32.072" N
P-131	83° 25' 40.284" E	22° 7' 30.275" N
P-132	83° 25' 43.333" E	22° 7' 28.478" N
P-133	83° 25' 46.383" E	22° 7' 26.682" N
P-134	83° 25' 49.673" E	22° 7' 24.731" N
P-135	83° 25' 52.963" E	22° 7' 22.780" N
P-136	83° 25' 56.254" E	22° 7' 20.829" N
P-137	83° 25' 59.544" E	22° 7' 18.878" N
P-138	83° 26' 2.834" E	22° 7' 16.927" N
P-139	83° 26' 6.125" E	22° 7' 14.976" N
P-140	83° 26' 9.415" E	22° 7' 13.025" N
P-141	83° 26' 12.612" E	22° 7' 11.133" N
P-142	83° 26' 15.809" E	22° 7' 9.241" N
P-143	83° 26' 16.036" E	22° 7' 9.197" N
P-144	83° 26' 16.050" E	22° 7' 5.889" N

Provisional Cardinal Points of Jarekela Block		
POINT_ID	LONGITUDE	LATITUDE
P-145	83° 26' 16.065" E	22° 7' 2.581" N
P-146	83° 26' 16.080" E	22° 6' 59.273" N
P-147	83° 26' 16.095" E	22° 6' 55.965" N
P-148	83° 26' 16.110" E	22° 6' 52.657" N
P-149	83° 26' 16.124" E	22° 6' 49.349" N
P-150	83° 26' 16.139" E	22° 6' 46.041" N
P-151	83° 26' 16.154" E	22° 6' 42.733" N
P-152	83° 26' 16.169" E	22° 6' 39.425" N
P-153	83° 26' 16.183" E	22° 6' 36.117" N
P-154	83° 26' 16.198" E	22° 6' 32.809" N
P-155	83° 26' 16.213" E	22° 6' 29.501" N
P-156	83° 26' 16.228" E	22° 6' 26.193" N
P-157	83° 26' 16.243" E	22° 6' 22.885" N
P-158	83° 26' 16.257" E	22° 6' 19.577" N
P-159	83° 26' 16.272" E	22° 6' 16.269" N
P-160	83° 26' 16.287" E	22° 6' 12.961" N
P-161	83° 26' 16.302" E	22° 6' 9.653" N
P-162	83° 26' 16.317" E	22° 6' 6.345" N
P-163	83° 26' 16.331" E	22° 6' 3.037" N
P-164	83° 26' 12.691" E	22° 6' 2.995" N
P-165	83° 26' 9.051" E	22° 6' 2.953" N
P-166	83° 26' 5.411" E	22° 6' 2.911" N
P-167	83° 26' 1.771" E	22° 6' 2.870" N
P-168	83° 25' 58.130" E	22° 6' 2.828" N
P-169	83° 25' 54.490" E	22° 6' 2.786" N
P-170	83° 25' 50.850" E	22° 6' 2.744" N
P-171	83° 25' 47.210" E	22° 6' 2.701" N
P-172	83° 25' 43.570" E	22° 6' 2.659" N
P-173	83° 25' 39.929" E	22° 6' 2.617" N
P-174	83° 25' 36.289" E	22° 6' 2.575" N
P-175	83° 25' 32.649" E	22° 6' 2.533" N
P-176	83° 25' 29.009" E	22° 6' 2.491" N
P-177	83° 25' 25.369" E	22° 6' 2.449" N
P-178	83° 25' 21.728" E	22° 6' 2.406" N
P-179	83° 25' 18.088" E	22° 6' 2.364" N
P-180	83° 25' 18.049" E	22° 5' 59.021" N
P-181	83° 25' 18.009" E	22° 5' 55.678" N
P-182	83° 25' 17.969" E	22° 5' 52.335" N
P-183	83° 25' 17.929" E	22° 5' 48.992" N
P-184	83° 25' 17.890" E	22° 5' 45.649" N
P-185	83° 25' 17.850" E	22° 5' 42.306" N
P-186	83° 25' 17.810" E	22° 5' 38.963" N
P-187	83° 25' 17.770" E	22° 5' 35.620" N
P-188	83° 25' 17.731" E	22° 5' 32.277" N
P-189	83° 25' 17.691" E	22° 5' 28.934" N
P-190	83° 25' 17.651" E	22° 5' 25.591" N
P-191	83° 25' 17.611" E	22° 5' 22.248" N
P-192	83° 25' 17.572" E	22° 5' 18.905" N

Provisional Cardinal Points of Jarekela Block		
POINT_ID	LONGITUDE	LATITUDE
P-193	83° 25' 17.532" E	22° 5' 15.563" N
P-194	83° 25' 17.492" E	22° 5' 12.220" N
P-195	83° 25' 17.452" E	22° 5' 8.877" N
P-196	83° 25' 17.413" E	22° 5' 5.534" N
P-197	83° 25' 17.373" E	22° 5' 2.191" N