

**SARADHAPUR NORTH BLOCK SUMMARY
PART A**

Sr. No.	Features	Details
1.	Location	
	Coal Block	SARADHAPUR NORTH
	Latitude	21° 1' 50" N-21° 3' 51" N (Provisional)
	Longitude	84° 59' 49" E-85° 1' 24" E (Provisoinal)
	Topo Sheet No.	F45M16 & F45N4 (73 G/4 & 73 C/16) in 1:50000 scale
	Coalfield	Talcher
	Villages	Saradhapur is the most important village, located in the central part of the block. Harichandanapur, Barha Tribira, Jamujhari are other notable villages around the area.
	Tehsil/Taluka	Kaniha
	District	The area is located near Chhendipada town, Angul District.
	State	Odisha
2.	Connectivity with Block	
	Nearest Rail Head	Angul is the nearest railway station on the Cuttack-Sambalpur section of East Coast Railway.
	Road	The area can be approached from the district headquarters Angul by a 30 km metalled road upto Kosala from where a fair road of 16 km connects Saradhapur towards Angul.
	Airport	Nearest airport is Bhubaneswar
3.	Area	
	Geological Block Area	8.27 sq. km. (As per shape file. Refer note below)
	Forest Area	North-western parts of the block comes under Saradhapur Reserve Forest (1.657 sq. km).
	Non-Forest Area	6.616 sq. km.
4.	Climate and Topography	
	Average Annual Rainfall	As per the IMD data of Angul, the highest rainfall occurs in the month of June (65.2 mm with a mean rainfall of 2.3 mm for the year 2017). Around 84% of rainfall occurs during the monsoon season. Winter Season (December – February) was the season of least rainfall.
	Temperature (Min. — Max.)	The temperature ranges from 17.6°C to 44.7°C during pre-monsoon cycle season (March 2017 to May 2017). The temperature varies from 7.6oC to 38.1oC during the winter season (From December 2017 to February 2018).
	Local Surface Drainage Channels	The area in general shows an undulating topography with a gentle easterly to south-easterly slope having an average elevation around 120 meter above MSL. Bhalutungri Nadi, a tributary of Singhara Jhor flows along the southern margin of the block towards SE with its tributaries draining the area by flowing towards easterly or south-easterly direction. The drainage pattern of the area is controlled both by Lithology and structure.

	Rivers	Bhalutungri Nadi, a tributary of Singhara Jhor flows along the southern margin of the block towards SE with its tributaries draining the area by flowing towards easterly or south-easterly direction.			
5.	Exploration				
	Status	Explored (GR Under preparation)			
	Exploration Agency	CMPDI, GSI & DGO			
	Total Number of Boreholes with meterage	GSI: TSPN Series : 3633.10 meter (2004-2007; 9 boreholes) TSP Series : 1061.15 meter (2001-2002; 2 boreholes) CMPDI : CTSN Series : 31757 meter (2015-2020; 76 boreholes) CMTCH Series : 562.00 (2015; 2 boreholes) DGO: DMKP Series : 213.25 meter (1998-1999; 4 boreholes) Total: 93 Boreholes; 37226.50 m			
	Borehole Density	11 boreholes per sq km			
	General Dip of Seams	Towards south west (4 to 8 degree)			
	General Strike Direction	Almost E-W in the south where as if move towards north, the trend changes to NW-SE in the western part of the block to almost E-W in the eastern part of the block with local swings.			
	Faults	The block is traversed by 20 nos. of faults having varying throw from 0 to 160m.			
6.	Coal Seams & Reserve (Proved: 701.773 MT, Indicated: 414.587 MT)				
	Coal Seams	Thickness Range (m)	Depth Range (m)	Resources (MT)	Grade
	XVII	0.51-4.86	13.75-212.48	22.739	Ungr-G14
	LOCAL 7	0.09-2.13	32.95-220.36	5.399	Ungr-G10
	XVI	2.07-26.00	34.64-233.57	25.242	G17-G11
	XV	0.30-1.50	40.90-197.17	0.917	Ungr-G13
	XIV	4.60-12.05	12.40-264.60	67.155	Ungr-G11
	XIV TOP	1.20-5.12	56.29-192.55	7.492	G16-G12
	XIV BOT	1.85-6.08	61.01-199.25	7.731	G16-G10
	XIII	3.12-7.49	21.50-220.58	22.059	Ungr-G13
	XIII TOP	0.63-3.14	127.52-274.90	11.264	G16-G9
	XIII BOT	0.65-4.86	129.39-290.95	8.474	Ungr-G8
	LOCAL 6	0.10-2.35	36.85-245.48	3.599	Ungr-G14
	XII	1.90-7.11	45.25-310.15	43.46	Ungr-G11
	XI	0.44-3.70	59.01-326.82	9.376	G17-G11
	XI TOP	0.54-1.50	197.56-233.44	1.442	G16-G10

	XI BOT	0.44-1.58	202.56-237.50	1.175	G15-G12
	X	1.00-7.00	65.60-365.47	41.525	G16-G10
	IX	0.70-4.97	80.65-370.65	28.417	G14-G6
	(VIII+VII+VI)	5.98-15.90	61.00-313.69	38.203	G15-G10
	VIII	0.15-3.70	108.35-399.36	14.162	G17-G12
	(VII+VI)	5.30-10.07	111.25-408.55	43.693	G16-G8
	(V+IV)	3.21-13.34	78.00-327.87	10.935	G17-G10
	V	0.58-5.07	174.49-415.30	27.421	Ungr-G9
	IV	1.25-7.24	180.35-422.61	37.128	G15-G7
	LOCAL 5	0.16-2.68	107.60-429.42	4.909	G17-G8
	III TOP	1.70-23.00	119.00-442.60	135.397	G17-G7
	LOCAL 4+III MID+III BOT (T)	32.94-37.35	318.23-496.24	113.89	G12-G9
	LOCAL 4	0.50-4.70	144.40-398.92	11.835	Ungr-G8
	III MID+III BOT (T)	22.50-30.35	337.82-379.93	10.681	G12-G10
	III MID	7.90-22.31	207.20-431.00	76.821	G14-G9
	III MID (T)	1.89-3.67	252.54-344.99	1.543	G11-G10
	III MID (B)	4.51-6.98	258.39-351.23	3.082	G11-G10
	III BOT	10.80-16.93	342.20-452.00	22.823	G14-G9
	III BOT (T)	6.64-12.49	228.46-409.90	44.768	G13-G9
	III BOT (B)	0.42-7.53	294.40-503.55	28.673	G17-G8
	II TOP	0.36-4.60	17.92-518.75	15.722	G15-G9
	II MID	3.10-10.78	14.50-476.34	56.237	G15-G8
	LOCAL 3	0.19-3.42	25.50-523.35	10.151	G15-G10
	II BOT	8.39-14.90	434.97-468.38	5.701	G15-G11
	II BOT (T)	0.60-6.24	36.00-530.85	15.679	G16-G9
	II BOT (M+B)	3.96-11.95	437.00-543.22	33.584	G15-G7
	II BOT (M)	0.45-6.55	17.11-488.65	18.152	G17-G9
	II BOT (B)	0.30-5.52	22.48-494.46	17.095	G17-G7
	LOCAL 2	0.10-3.00	36.18-549.60	10.609	G16-G6
	LOCAL 1	1.40-1.40			G6
	Total			1116.36	
7.	Surface Constraints	Proposed rail corridor passes through the southern part of the block.			

8.	Grade of coal	G13 (Provisional) based on weighted average grade as per grade-wise proved resources data available in Draft GR.
9.	Decision Support System (DSS) Analysis	Hydrology info: Bhalutunguri nala Wildlife info: Sloth Bear
10.	Eco Sensitive Zone (ESZ)	Approx. 11 km from the southern boundary of the tiger corridor connecting Simplipal and Satkosia. Approx. 20 km from the northern boundary of ESZ of Mahanadi Elephant Region. Approx. 30 km from the SE boundary of ESZ of Sambalpur Elephant Region.

Note:

1. The summary has been compiled from “Draft Geological Report on Coal Exploration, Saradhapur North Block, Talcher Coalfield. February-2021”

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.

21°2'0"N

21°3'0"N

21°4'0"N

84°59'0"E

85°0'0"E

85°1'0"E

85°2'0"E

Saradhapur North Block, Talcher Coalfield

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Legend

- Bounding Points
- Bounding Envelope
- Cardinal Points
- Block Boundary

OCBIS_BLOCKS Category

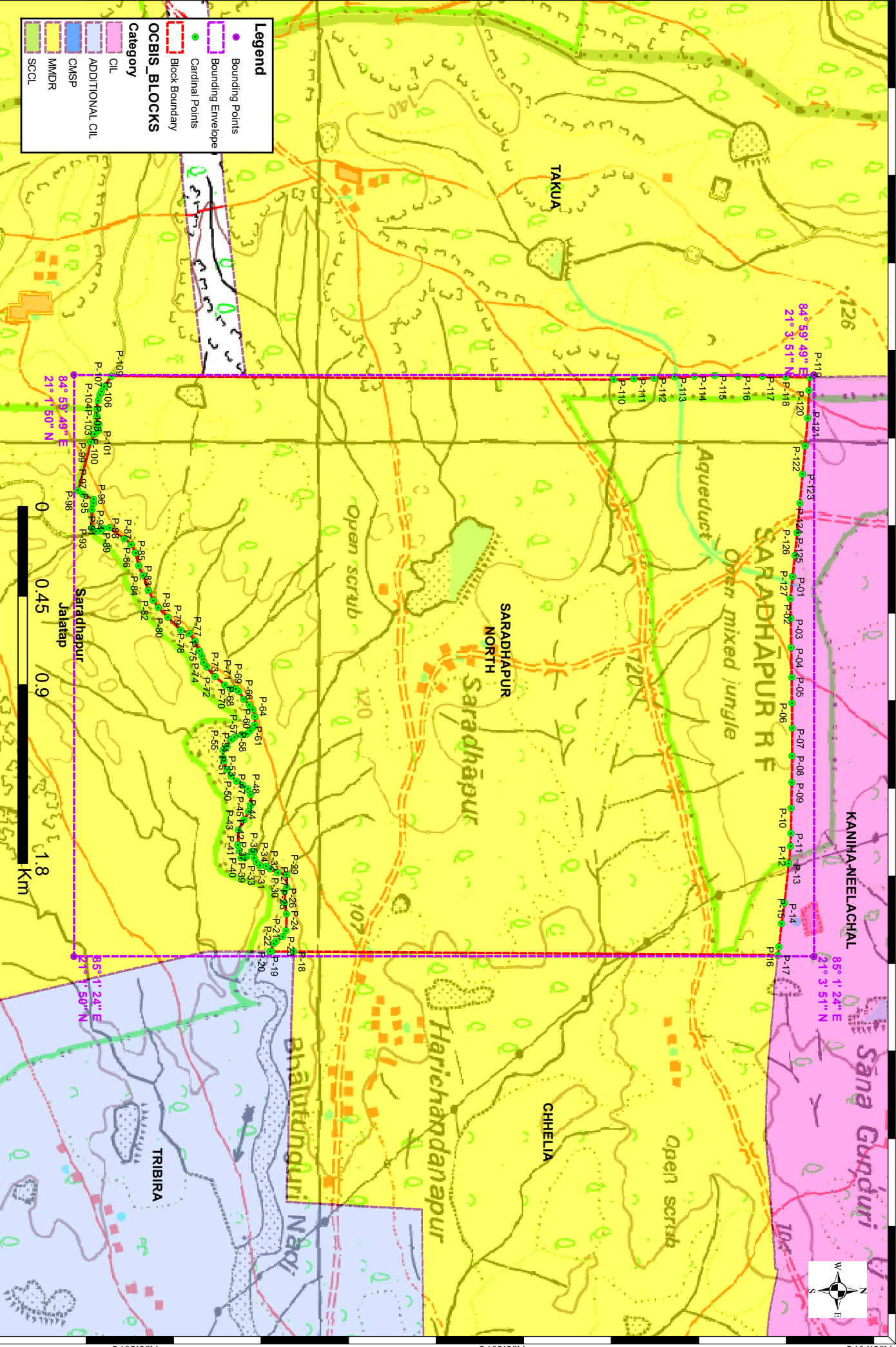
- CIL
- ADDITIONAL CIL
- CMSP
- MMDR
- SCCL

84°59'0"E

85°0'0"E

85°1'0"E

85°2'0"E



21°2'0"N

21°3'0"N

21°4'0"N



Provisional Cardinal Points for SARADHAPUR NORTH Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-1	85° 0' 22.009" E	21° 3' 47.517" N
P-2	85° 0' 25.609" E	21° 3' 47.149" N
P-3	85° 0' 28.816" E	21° 3' 47.220" N
P-4	85° 0' 33.604" E	21° 3' 47.284" N
P-5	85° 0' 38.392" E	21° 3' 47.349" N
P-6	85° 0' 42.584" E	21° 3' 47.398" N
P-7	85° 0' 46.777" E	21° 3' 47.446" N
P-8	85° 0' 51.184" E	21° 3' 47.414" N
P-9	85° 0' 55.591" E	21° 3' 47.381" N
P-10	85° 0' 59.733" E	21° 3' 47.296" N
P-11	85° 1' 3.874" E	21° 3' 47.210" N
P-12	85° 1' 5.975" E	21° 3' 47.156" N
P-13	85° 1' 8.900" E	21° 3' 46.845" N
P-14	85° 1' 15.278" E	21° 3' 46.171" N
P-15	85° 1' 18.613" E	21° 3' 45.710" N
P-16	85° 1' 22.385" E	21° 3' 45.260" N
P-17	85° 1' 23.774" E	21° 3' 45.095" N
P-18	85° 1' 23.220" E	21° 2' 25.921" N
P-19	85° 1' 23.223" E	21° 2' 22.366" N
P-20	85° 1' 23.223" E	21° 2' 22.095" N
P-21	85° 1' 21.896" E	21° 2' 22.706" N
P-22	85° 1' 21.509" E	21° 2' 23.139" N
P-23	85° 1' 20.715" E	21° 2' 24.134" N
P-24	85° 1' 19.826" E	21° 2' 24.720" N
P-25	85° 1' 17.123" E	21° 2' 24.760" N
P-26	85° 1' 15.288" E	21° 2' 24.470" N
P-27	85° 1' 13.455" E	21° 2' 24.482" N
P-28	85° 1' 12.742" E	21° 2' 24.771" N
P-29	85° 1' 10.653" E	21° 2' 24.733" N
P-30	85° 1' 10.312" E	21° 2' 23.367" N
P-31	85° 1' 9.725" E	21° 2' 22.055" N
P-32	85° 1' 9.226" E	21° 2' 21.413" N
P-33	85° 1' 9.142" E	21° 2' 20.458" N
P-34	85° 1' 8.615" E	21° 2' 19.842" N
P-35	85° 1' 7.897" E	21° 2' 19.486" N
P-36	85° 1' 6.908" E	21° 2' 19.518" N
P-37	85° 1' 6.850" E	21° 2' 19.080" N
P-38	85° 1' 7.641" E	21° 2' 18.274" N
P-39	85° 1' 7.941" E	21° 2' 17.937" N
P-40	85° 1' 7.854" E	21° 2' 17.370" N
P-41	85° 1' 6.752" E	21° 2' 17.067" N
P-42	85° 1' 5.761" E	21° 2' 16.841" N
P-43	85° 1' 3.369" E	21° 2' 16.883" N
P-44	85° 1' 1.699" E	21° 2' 17.823" N
P-45	85° 1' 0.331" E	21° 2' 18.606" N
P-46	85° 0' 59.370" E	21° 2' 18.870" N
P-47	85° 0' 57.556" E	21° 2' 18.856" N

Provisional Cardinal Points for SARADHAPUR NORTH Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-48	85° 0' 56.645" E	21° 2' 18.449" N
P-49	85° 0' 56.007" E	21° 2' 17.576" N
P-50	85° 0' 55.340" E	21° 2' 16.599" N
P-51	85° 0' 54.508" E	21° 2' 15.676" N
P-52	85° 0' 53.431" E	21° 2' 15.063" N
P-53	85° 0' 52.108" E	21° 2' 14.530" N
P-54	85° 0' 51.529" E	21° 2' 14.379" N
P-55	85° 0' 50.315" E	21° 2' 14.412" N
P-56	85° 0' 49.609" E	21° 2' 14.998" N
P-57	85° 0' 48.607" E	21° 2' 15.692" N
P-58	85° 0' 48.175" E	21° 2' 16.254" N
P-59	85° 0' 47.817" E	21° 2' 17.418" N
P-60	85° 0' 47.618" E	21° 2' 18.280" N
P-61	85° 0' 47.186" E	21° 2' 18.842" N
P-62	85° 0' 46.480" E	21° 2' 19.427" N
P-63	85° 0' 46.161" E	21° 2' 19.537" N
P-64	85° 0' 44.809" E	21° 2' 19.610" N
P-65	85° 0' 43.707" E	21° 2' 19.252" N
P-66	85° 0' 42.901" E	21° 2' 18.698" N
P-67	85° 0' 41.978" E	21° 2' 17.800" N
P-68	85° 0' 40.689" E	21° 2' 16.948" N
P-69	85° 0' 40.273" E	21° 2' 16.478" N
P-70	85° 0' 40.257" E	21° 2' 15.579" N
P-71	85° 0' 39.673" E	21° 2' 14.679" N
P-72	85° 0' 38.315" E	21° 2' 13.088" N
P-73	85° 0' 36.765" E	21° 2' 11.730" N
P-74	85° 0' 35.991" E	21° 2' 11.219" N
P-75	85° 0' 34.945" E	21° 2' 10.916" N
P-76	85° 0' 34.090" E	21° 2' 10.534" N
P-77	85° 0' 32.527" E	21° 2' 9.839" N
P-78	85° 0' 31.200" E	21° 2' 8.884" N
P-79	85° 0' 30.676" E	21° 2' 7.476" N
P-80	85° 0' 28.645" E	21° 2' 5.390" N
P-81	85° 0' 27.067" E	21° 2' 3.813" N
P-82	85° 0' 25.824" E	21° 2' 3.004" N
P-83	85° 0' 24.214" E	21° 2' 2.197" N
P-84	85° 0' 21.779" E	21° 2' 1.309" N
P-85	85° 0' 20.170" E	21° 2' 0.631" N
P-86	85° 0' 18.059" E	21° 2' 0.085" N
P-87	85° 0' 16.679" E	21° 1' 59.363" N
P-88	85° 0' 15.708" E	21° 1' 58.208" N
P-89	85° 0' 13.950" E	21° 1' 55.853" N
P-90	85° 0' 14.105" E	21° 1' 54.789" N
P-91	85° 0' 14.542" E	21° 1' 54.339" N
P-92	85° 0' 14.610" E	21° 1' 53.581" N
P-93	85° 0' 14.101" E	21° 1' 52.936" N
P-94	85° 0' 11.022" E	21° 1' 52.955" N

Provisional Cardinal Points for SARADHAPUR NORTH Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-95	85° 0' 9.925" E	21° 1' 53.221" N
P-96	85° 0' 9.375" E	21° 1' 53.224" N
P-97	85° 0' 8.482" E	21° 1' 51.475" N
P-98	85° 0' 7.872" E	21° 1' 50.653" N
P-99	84° 59' 59.970" E	21° 1' 52.768" N
P-100	84° 59' 58.640" E	21° 1' 53.425" N
P-101	84° 59' 58.071" E	21° 1' 54.093" N
P-102	84° 59' 57.068" E	21° 1' 54.125" N
P-103	84° 59' 55.743" E	21° 1' 53.776" N
P-104	84° 59' 54.540" E	21° 1' 53.857" N
P-105	84° 59' 53.221" E	21° 1' 53.986" N
P-106	84° 59' 52.179" E	21° 1' 54.251" N
P-107	84° 59' 51.762" E	21° 1' 54.489" N
P-108	84° 59' 50.901" E	21° 1' 54.982" N
P-109	84° 59' 49.155" E	21° 1' 56.183" N
P-110	84° 59' 49.756" E	21° 3' 18.268" N
P-111	84° 59' 49.617" E	21° 3' 21.569" N
P-112	84° 59' 49.478" E	21° 3' 24.870" N
P-113	84° 59' 49.339" E	21° 3' 28.171" N
P-114	84° 59' 49.199" E	21° 3' 31.472" N
P-115	84° 59' 49.060" E	21° 3' 34.773" N
P-116	84° 59' 49.142" E	21° 3' 38.660" N
P-117	84° 59' 49.224" E	21° 3' 42.546" N
P-118	84° 59' 49.306" E	21° 3' 46.432" N
P-119	84° 59' 49.388" E	21° 3' 50.319" N
P-120	84° 59' 51.532" E	21° 3' 50.198" N
P-121	84° 59' 56.033" E	21° 3' 49.982" N
P-122	85° 0' 0.603" E	21° 3' 49.553" N
P-123	85° 0' 5.172" E	21° 3' 49.124" N
P-124	85° 0' 9.990" E	21° 3' 48.689" N
P-125	85° 0' 14.808" E	21° 3' 48.254" N
P-126	85° 0' 18.408" E	21° 3' 47.886" N