

**KOSALA WEST BLOCK SUMMARY
PART A**

Sr. No.	Features	Details
1.	Location	
	Coal Block	Kosala West Block
	Latitude	21° 0' 37" N-21° 2' 0" N (Provisional)
	Longitude	84° 53' 41" E-84° 56' 12" E (Provisional)
	Topo Sheet No.	F45M16 (64 C/16) 1:50000 scale
	Coalfield	Talcher
	Villages	Kosala Village, Kukurpeta, Phuljhari
	Tehsil/Taluka	Chhendipada
	District	Angul
	State	Odisha
2.	Connectivity with Block	
	Nearest Rail Head	Angul Railway Station (40 Kms. Approx.)
	Road	District headquarter Angul, located on the National Highway 42 (Bhubaneswar-Cuttack-Angul to Sambalpur), is the nearest town and railway station at a distance of about 34 km.
	Airport	Bhubaneswar Airport (150 Km. from Angul town)
3.	Area	
	Geological Block Area	7.27 sq. km.
	Forest Area	1.75 sq. km.
	Non-Forest Area	5.52 sq. km.
4.	Climate and Topography	
	Average Annual Rainfall	5 mm. to 330 mm. (approx.)
	Temperature (Min. — Max.)	3° C to 38° C (approx.)
	Local Surface Drainage Channels	Singhara jhor, southern side of the block
	Rivers	Brahmani river (approx. 40 km.towards East side of the block)
5.	Exploration	
	Status	Explored
	Exploration Agency	CMPDI, GSI

	Total Number of Boreholes with meterage	GSI: 2440.90 (4 boreholes) CMPDI :32119 m (43 boreholes) Total: 47 Boreholes; 34559.9 m			
	Borehole Density	Approx. 6.46 bhs/sq.km.			
	General Dip of Seams	General dip of the coal seams is 3° towards N to NNE.			
	General Strike Direction	General strike of the coal seams are basically E-W and WNW-ESE in places with local flexures.			
	Faults	Kosala West block is interpreted to be traversed by 9 (nine) faults.			
6.	Coal Seams & Reserve				
	Coal Seams	Thickness Range (m)	Depth Range (m)	Resources (MT) (Proved + Indicated)	Grade
	XI Top A	1.32-9.28	245.96-400.79	9.234	G13-G17
	XI Top B	1.77-6	250.44-404.6	4.974	G12-G17
	XI Top	4.21-9.38	278.29-386.66	66.665	G10-G16
	XI Bot 2	4.04-4.04	365.16-365.16		
	XI Bot 1	1.93-1.93	368.68-368.68		
	XI Bottom	2.9-6.65	258.9-413.25	48.835	G10-G16
	X Top	0.44-1.98	345.14-435.8	2.226	G14-G15
	X Bottom	0.4-2.74	347.71-440.53	2.688	G14-G15
	X	0.8-7.35	345.87-426.28	4.161	G10-G17
	IX & X Com	25.99-36.89	366-447.7	168.469	G12-G14
	IX Top 2	5.38-10.28	280.24-328.68	5.637	G14-G16
	IX Top 1	1.3-7.23	288.6-332	1.008	G11-G15
	IX TOP	5.91-26.24	300.86-434.12	39.21	G13-G17
	IX Bot 2	3.91-10	297.59-360.44	3.943	G13-G14
	IX Bot 1	4.25-6	306.55-367.52	1.929	G13-G14
	IX Bot	4.25-17.35	315.94-453.46	30.774	G11-G13
	IX	18.17-32.71	381.22-467.11	50.949	G12-G14
	VIII Top 2	2.28-3.41	322.89-379.47	6.374	G10-G14
	VIII Top 1	0.56-3.66	333.08-385.33	3.543	G10-G16
	VIII Top	2.16-8.66	317-480.15	58.097	G9-G14
	VIII Bot 2	0.65-4.29	338.82-498.17	6.476	G13-G16
	VIII Bot 1	2.85-5.99	347.31-507.62	9.998	G9-G16
	VIII Bot	5.15-15.95	356.72-490	70.483	G10-G15
	VII B	0.64-15.15	372.17-521.82	42.446	G9-G16

	VIIB & VII A	6.23-19.92	404.36-510.84	36.977	G9-G14
	VII A	0.52-8	380.43-517.86	37.153	G10-G17
	VI B	0.47-5.13	385.72-532.78	31.177	G9-G17
	V Top 2	0.71-2.39	391.66-514	3.553	G9-G16
	V Top 1	0.67-5	393.65-520.06	5.374	G10-G15
	V Top	0.86-4.4	396.14-545.7	13.934	G13-G17
	V bot 2	0.71-3.34	408-485.38	1.24	G13-G15
	V Bot 1	0.85-4.82	410.23-491.49	2.212	G13-G15
	V Bot	0.27-4.45	399.78-555.27	15.811	G11-G17
	V Top & Bot	2.13-8.61	390.43-557	12.931	G11-G16
	IV Top 2	0.95-4.79	401-499.92	13.063	G10-G17
	IV Top 1	1.05-4.47	405.25-502.45	10.317	G10-G16
	IV Top	2.58-5.32	407.45-540.04	4.37	G13-G16
	IV Bot 2	1.9-6.71	409.7-513.94	7.068	G11-G15
	IV Bot 1	2.16-4.16	417.83-519.17	5.952	G12-G16
	IV Bot	1.66-11.14	422.9-547.4	24.93	G11-G15
	IV Top & IV Bot	4.96-13.74	437.222-590	30.076	G12-G15
	L 3	0.67-5.83	423.52-597.46	32.872	G8-G15
	III Top 2	0.5-8.99	439.64-575.16	18.376	G9-G15
	III Top 1	1.12-12.56	452.91-581	36.062	G9-G14
	III TOP	1.15-16.72	495.98-570.33	28.729	G10-G13
	III Mid 2	0.22-6.47	461.1-578.9	14.242	G8-G17
	III Mid1	0.62-7.93	464.8-588.14	13.453	G6-G16
	III Mid	1.32-15.25	471.83-596.17	36.556	G9-G14
	III Top & Mid Com	14.26-27.24	536.29-625.45	51.604	G10-G12
	III Bot 2	10.62-10.62	571.99-571.99		
	III Bot 1	4.8-4.8	580.48-580.48		
	III Bot	16.1-22.87	490.7-652.74	207.702	G9-G11
	II C	0.71-3.41	505.07-593.51	8.785	G6-G16
	II B	1.04-12.02	515.33-669.48	63.494	G9-G12
	II A	6.92-16.82	539.77-662.3	62.599	G9-G14
	II A 2	2.47-10.88	532.94-674	4.089	G10-G12
	II A 1	1.76-8.46	539.75-684.09	2.672	G12-G13
	II A + L2	11.32-17.21	535.26-674	35.463	G10-G13
	L 2	0.24-4.1	542.28-665.49	9.791	G5-G14
	I A	0.27-3.43	570.76-714.86	7.093	G4-G15
	I B	1.11-4.65	574.5-724.77	15.162	G5-G15
	I C	0.25-3.35	576.81-735.22	6.235	G3-G11
	I D	0.08-4.53	586.04-739.47	9.495	G1-G17
	I E	0.16-1.44	596.38-748.79		
	I F	0.33-1.9	620.54-771.74		

	I G	0.25-4.6	623.9-773.31		
	I H	0.07-2	639.96-790.27		
	I I	0.13-2.23	651.23-802.51		
	I J	0.13-0.8	662-820.52		
	Total			1558.731	
7.	Surface Constraints	-			
8.	Grade of coal	G12 (Provisional) based on weighted average grade as per grade-wise data in the Draft GR.			
9.	Decision Support System (DSS) Analysis	Wildlife info: Sloth Bear, Dhole			
10.	Eco Sensitive Zone (ESZ)	Western boundary of the block is approx. 9 km from the boundary of the tiger corridor connecting Simlipal and Satkosia to the west and Northern boundary of the block is approx. 16 km from the boundary of the the tiger corridor connecting Simlipal and Satkosia to the north. Approx. 11 km from the boundary of the ESZ of Mahanadi Elephant Region.			

PART B

Sr. No.	Features	Details
1.	Tentative Peak rated Capacity	2.0
2.	Mine Plan Availability	NA

Note:

1. The summary has been compiled from DGR (Draft Geological Report) of “Geological Report on Detailed Exploration for Coal in Kosala West Block, Talcher Coalfield, District: Angul, Odisha”. March-2021
2. The bounding coordinates and cardinal points are extracted from ArcGIS software and on ground DGPS survey is required to ascertain the exact location of the boundary.
3. Weighted average grade is calculated from the grade-wise resource data available in DGR and is subject to change.

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°10'N

21°20'N

84°54'0"E

84°55'0"E

84°56'0"E

Kosala West Block, Talcher Coalfield

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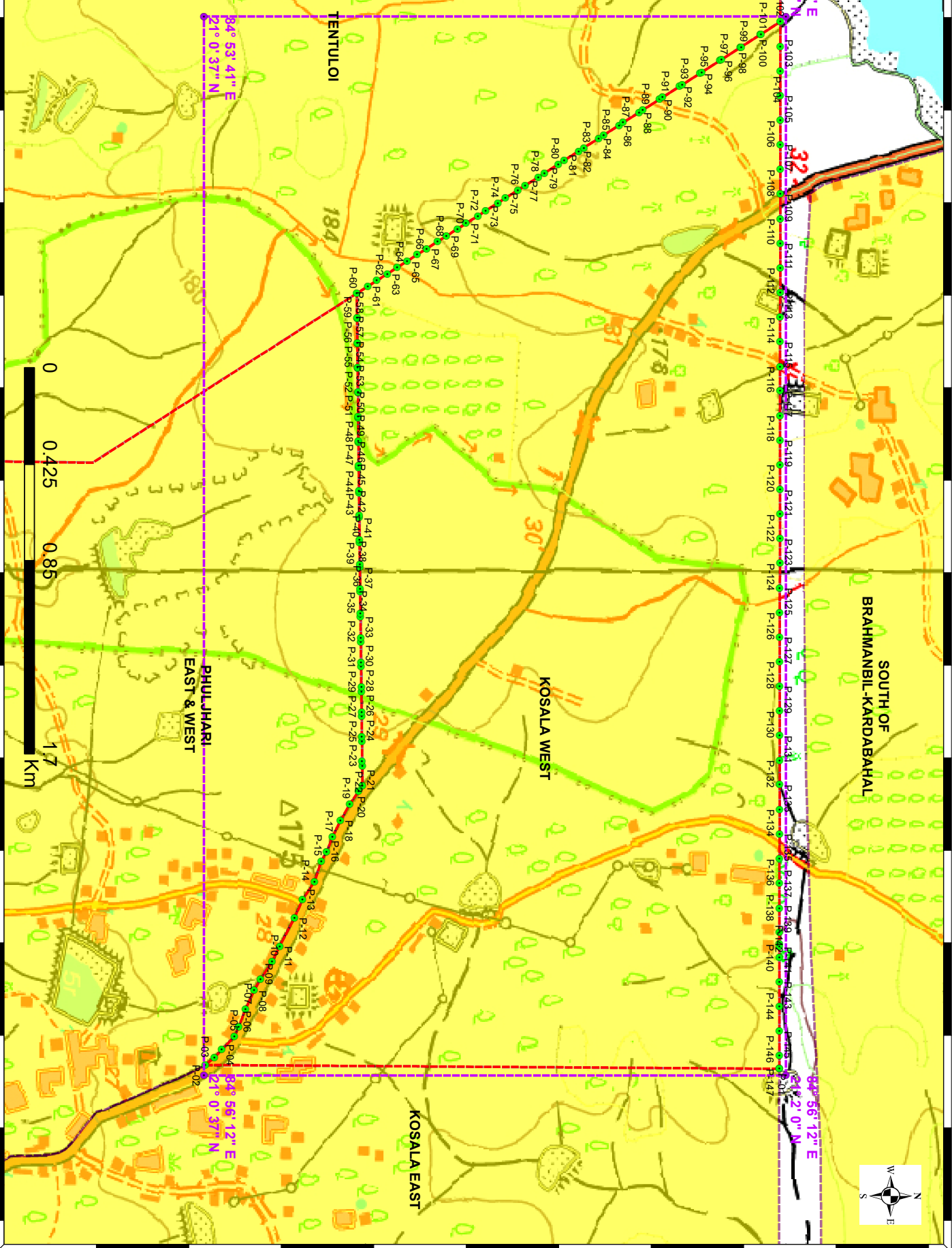
Legend

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

OCBIS_BLOCKS

Category

- CIL
- ADDITIONAL CIL
- CMSP
- MMDR
- SCCL



21°10'N

21°20'N

84°54'0"E

84°55'0"E

84°56'0"E



Provisional Cardinal Points for KOSALA WEST Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-1	84° 56' 11.029" E	21° 1' 59.059" N
P-2	84° 56' 10.472" E	21° 0' 37.195" N
P-3	84° 56' 9.437" E	21° 0' 38.465" N
P-4	84° 56' 8.289" E	21° 0' 39.530" N
P-5	84° 56' 6.414" E	21° 0' 41.331" N
P-6	84° 56' 5.052" E	21° 0' 41.930" N
P-7	84° 56' 2.540" E	21° 0' 42.912" N
P-8	84° 55' 59.827" E	21° 0' 44.141" N
P-9	84° 55' 58.239" E	21° 0' 45.080" N
P-10	84° 55' 55.731" E	21° 0' 46.695" N
P-11	84° 55' 53.539" E	21° 0' 47.783" N
P-12	84° 55' 49.522" E	21° 0' 49.915" N
P-13	84° 55' 46.918" E	21° 0' 51.049" N
P-14	84° 55' 44.319" E	21° 0' 52.785" N
P-15	84° 55' 41.439" E	21° 0' 53.749" N
P-16	84° 55' 40.070" E	21° 0' 54.488" N
P-17	84° 55' 38.014" E	21° 0' 55.317" N
P-18	84° 55' 35.639" E	21° 0' 56.450" N
P-19	84° 55' 33.266" E	21° 0' 57.798" N
P-20	84° 55' 31.442" E	21° 0' 59.056" N
P-21	84° 55' 30.675" E	21° 0' 59.593" N
P-22	84° 55' 27.890" E	21° 0' 59.561" N
P-23	84° 55' 27.165" E	21° 0' 59.553" N
P-24	84° 55' 24.342" E	21° 0' 59.520" N
P-25	84° 55' 23.655" E	21° 0' 59.512" N
P-26	84° 55' 20.794" E	21° 0' 59.479" N
P-27	84° 55' 20.145" E	21° 0' 59.472" N
P-28	84° 55' 17.246" E	21° 0' 59.438" N
P-29	84° 55' 16.636" E	21° 0' 59.431" N
P-30	84° 55' 13.698" E	21° 0' 59.398" N
P-31	84° 55' 13.126" E	21° 0' 59.391" N
P-32	84° 55' 10.151" E	21° 0' 59.357" N
P-33	84° 55' 9.616" E	21° 0' 59.350" N
P-34	84° 55' 6.603" E	21° 0' 59.316" N
P-35	84° 55' 6.106" E	21° 0' 59.310" N
P-36	84° 55' 3.055" E	21° 0' 59.275" N
P-37	84° 55' 2.597" E	21° 0' 59.269" N
P-38	84° 54' 59.507" E	21° 0' 59.234" N
P-39	84° 54' 59.087" E	21° 0' 59.229" N
P-40	84° 54' 55.959" E	21° 0' 59.193" N
P-41	84° 54' 55.577" E	21° 0' 59.188" N
P-42	84° 54' 52.411" E	21° 0' 59.151" N
P-43	84° 54' 52.067" E	21° 0' 59.147" N
P-44	84° 54' 48.863" E	21° 0' 59.110" N
P-45	84° 54' 48.558" E	21° 0' 59.107" N
P-46	84° 54' 45.315" E	21° 0' 59.069" N
P-47	84° 54' 45.048" E	21° 0' 59.066" N

P-48	84° 54' 41.767" E	21° 0' 59.028" N
P-49	84° 54' 41.538" E	21° 0' 59.025" N
P-50	84° 54' 38.219" E	21° 0' 58.987" N
P-51	84° 54' 38.028" E	21° 0' 58.985" N
P-52	84° 54' 34.671" E	21° 0' 58.946" N
P-53	84° 54' 34.519" E	21° 0' 58.944" N
P-54	84° 54' 31.124" E	21° 0' 58.905" N
P-55	84° 54' 31.009" E	21° 0' 58.903" N
P-56	84° 54' 27.576" E	21° 0' 58.863" N
P-57	84° 54' 27.499" E	21° 0' 58.862" N
P-58	84° 54' 24.028" E	21° 0' 58.822" N
P-59	84° 54' 23.990" E	21° 0' 58.822" N
P-60	84° 54' 20.480" E	21° 0' 58.781" N
P-61	84° 54' 19.472" E	21° 1' 0.354" N
P-62	84° 54' 18.635" E	21° 1' 1.659" N
P-63	84° 54' 17.675" E	21° 1' 3.157" N
P-64	84° 54' 16.791" E	21° 1' 4.538" N
P-65	84° 54' 15.879" E	21° 1' 5.961" N
P-66	84° 54' 14.946" E	21° 1' 7.416" N
P-67	84° 54' 14.082" E	21° 1' 8.765" N
P-68	84° 54' 13.101" E	21° 1' 10.295" N
P-69	84° 54' 12.285" E	21° 1' 11.568" N
P-70	84° 54' 11.257" E	21° 1' 13.174" N
P-71	84° 54' 10.489" E	21° 1' 14.372" N
P-72	84° 54' 9.412" E	21° 1' 16.052" N
P-73	84° 54' 8.692" E	21° 1' 17.176" N
P-74	84° 54' 7.567" E	21° 1' 18.931" N
P-75	84° 54' 6.895" E	21° 1' 19.979" N
P-76	84° 54' 5.722" E	21° 1' 21.809" N
P-77	84° 54' 5.098" E	21° 1' 22.783" N
P-78	84° 54' 3.878" E	21° 1' 24.688" N
P-79	84° 54' 3.302" E	21° 1' 25.586" N
P-80	84° 54' 2.033" E	21° 1' 27.566" N
P-81	84° 54' 1.505" E	21° 1' 28.390" N
P-82	84° 54' 0.188" E	21° 1' 30.445" N
P-83	84° 53' 59.708" E	21° 1' 31.194" N
P-84	84° 53' 58.343" E	21° 1' 33.323" N
P-85	84° 53' 57.911" E	21° 1' 33.997" N
P-86	84° 53' 56.498" E	21° 1' 36.202" N
P-87	84° 53' 56.114" E	21° 1' 36.801" N
P-88	84° 53' 54.653" E	21° 1' 39.080" N
P-89	84° 53' 54.317" E	21° 1' 39.604" N
P-90	84° 53' 52.809" E	21° 1' 41.959" N
P-91	84° 53' 52.521" E	21° 1' 42.408" N
P-92	84° 53' 50.964" E	21° 1' 44.837" N
P-93	84° 53' 50.724" E	21° 1' 45.212" N
P-94	84° 53' 49.119" E	21° 1' 47.716" N
P-95	84° 53' 48.927" E	21° 1' 48.015" N
P-96	84° 53' 47.274" E	21° 1' 50.594" N
P-97	84° 53' 47.130" E	21° 1' 50.819" N

P-98	84° 53' 45.429" E	21° 1' 53.473" N
P-99	84° 53' 45.333" E	21° 1' 53.622" N
P-100	84° 53' 43.584" E	21° 1' 56.351" N
P-101	84° 53' 43.536" E	21° 1' 56.426" N
P-102	84° 53' 41.739" E	21° 1' 59.230" N
P-103	84° 53' 45.248" E	21° 1' 59.226" N
P-104	84° 53' 48.758" E	21° 1' 59.222" N
P-105	84° 53' 52.268" E	21° 1' 59.219" N
P-106	84° 53' 55.777" E	21° 1' 59.215" N
P-107	84° 53' 59.287" E	21° 1' 59.212" N
P-108	84° 54' 2.797" E	21° 1' 59.208" N
P-109	84° 54' 6.306" E	21° 1' 59.204" N
P-110	84° 54' 9.816" E	21° 1' 59.201" N
P-111	84° 54' 13.326" E	21° 1' 59.197" N
P-112	84° 54' 16.835" E	21° 1' 59.193" N
P-113	84° 54' 20.345" E	21° 1' 59.189" N
P-114	84° 54' 23.855" E	21° 1' 59.186" N
P-115	84° 54' 27.364" E	21° 1' 59.182" N
P-116	84° 54' 30.874" E	21° 1' 59.178" N
P-117	84° 54' 34.384" E	21° 1' 59.174" N
P-118	84° 54' 37.893" E	21° 1' 59.170" N
P-119	84° 54' 41.403" E	21° 1' 59.166" N
P-120	84° 54' 44.913" E	21° 1' 59.162" N
P-121	84° 54' 48.422" E	21° 1' 59.158" N
P-122	84° 54' 51.932" E	21° 1' 59.155" N
P-123	84° 54' 55.442" E	21° 1' 59.151" N
P-124	84° 54' 58.951" E	21° 1' 59.147" N
P-125	84° 55' 2.461" E	21° 1' 59.142" N
P-126	84° 55' 5.971" E	21° 1' 59.138" N
P-127	84° 55' 9.480" E	21° 1' 59.134" N
P-128	84° 55' 12.990" E	21° 1' 59.130" N
P-129	84° 55' 16.499" E	21° 1' 59.126" N
P-130	84° 55' 20.009" E	21° 1' 59.122" N
P-131	84° 55' 23.519" E	21° 1' 59.118" N
P-132	84° 55' 27.028" E	21° 1' 59.114" N
P-133	84° 55' 30.538" E	21° 1' 59.109" N
P-134	84° 55' 34.048" E	21° 1' 59.105" N
P-135	84° 55' 37.557" E	21° 1' 59.101" N
P-136	84° 55' 41.067" E	21° 1' 59.097" N
P-137	84° 55' 44.577" E	21° 1' 59.092" N
P-138	84° 55' 48.086" E	21° 1' 59.088" N
P-139	84° 55' 51.596" E	21° 1' 59.084" N
P-140	84° 55' 53.234" E	21° 1' 59.082" N
P-141	84° 55' 53.612" E	21° 1' 59.081" N
P-142	84° 55' 55.106" E	21° 1' 59.079" N
P-143	84° 55' 58.615" E	21° 1' 59.075" N
P-144	84° 56' 2.125" E	21° 1' 59.071" N
P-145	84° 56' 5.635" E	21° 1' 59.066" N
P-146	84° 56' 9.144" E	21° 1' 59.062" N

Note: The coordinates are generated using ArcGIS software. Block boundary is not physically surveyed on the ground. This may likely to change after DGPS survey on the ground.