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. (As per shape file. Refer note below)
	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.)	3o C to 38o 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 (GR under preparation)
	Exploration Agency	CMPDI, GSI

	Total Number of Boreholes with meterage	GSI: 2433.58 (4 boreholes) CMPDI :32119 m (43 boreholes) Total: 47 Boreholes; 34552.58 m (Drilling Completed)			
	Borehole Density	Approx. 65 bhs/sqkm			
	General Dip of Seams	N-NE with local variations			
	General Strike Direction	E-W with local variations			
	Faults	Structure has not been finalized yet.			
6.	**Coal Seams & Reserve**				
	Coal Seams	Thickness Range (m)	Depth Range (m)	Resources (mt) (Indicated)	Grade
	Seam :XI TOP A	4.27	321.97-326.24		
	Seam :XI TOP B	2.55	328.2-330.76		
	Seam :XI TOP	8.44	335.93-344.36		
	Seam :XI BOT	4.33	344.42-348.75		
	Seam :X TOP	1.01	393.86-394.87		
	Seam :X BOT	1.84	397.25-399.09		
	Seam : X	2.99	390.69-393.69		
	Seam :IX TOP 2	7.8	300.29-308.09		
	Seam :IX TOP 1	2.95	309.59-312.53		
	Seam :IX TOP	14.79	354.51-369.3		
	Seam :IX BOT 2	6.82	317.15-323.96		
	Seam :IX BOT 1	5.37	325.66-331.03		
	Seam :IX BOT	12.39	371.49-383.88		
	Seam :IX	26.88	399.09-425.97		
	Seam :IX & X COMBINED	33.86	375.61-409.48		
	Seam :VIII TOP 2	2.82	339.52-342.34		
	Seam :VIII TOP 1	1.47	349.05-350.52		
	Seam :VIII TOP	6.33	416.59-422.91		
	Seam :VIII BOT 2	2.17	394.55-396.72		
	Seam :VIII BOT 1	3.36	401.46-404.82		
	Seam :VIII B	8.99	434.66-443.64		
	Seam :VII B	6.04	440.91-446.94		
	Seam :VII A	4.04	446.64-450.68		
	Seam :VII B VII A	13.4	453.62-467.02		

	COM				
	VI B	2.37	461.27-463.65		
	V TOP 2	1.43	444.27-445.7		
	Seam :V TOP 1	2.27	447.61-449.88		
	Seam :V TOP	2.21	466.42-468.63		
	Seam :V BOT 2	2	444.88-446.88		
	Seam :V BOT 1	3.38	448.44-451.82		
	Seam :V BOT	1.8	469.93-471.73		
	Seam :V TOP V BOT COM	5.15	497.9-503.05		
	Seam :IV TOP 2	2.23	454.22-456.45		
	Seam :IV TOP 1	2.07	458.47-460.54		
	Seam IV TOP	3.93	475.97-479.9		
	Seam :IV BOT 2	3.91	445.73-449.64		
	Seam :IV BOT 1	3.14	452.71-455.85		
	Seam :IV BOT	4.55	482.79-487.34		
	Seam :IV TOP IV BOT COM	9.32	520.33-529.65		
	Seam :L3	3.02	505.38-508.4		
	Seam :III TOP 2	2.93	487.3-490.22		
	Seam :III TOP 1	5.75	498.61-504.37		
	Seam :III TOP	11.88	531.98-543.86		
	Seam :III MID2	2.74	514.41-517.15		
	Seam :III MID 1	2.93	521.23-524.16		
	Seam :III M	7.17	526.2-533.38		
	Seam :III TOP III MID COM	24.54	567.23-591.77		
	Seam :III BOT 2	10.62	561.37-571.99		
	Seam :III BOT 1	4.8	575.68-580.48		
	Seam :III BOT	19.29	551.44-570.73		
	Seam :2C	1.88	549-550.88		
	Seam :2B	7.32	583.61-590.93		
	Seam :2A2	6.21	583.6-589.81		
	Seam :2A1	4.42	591.24-595.66		
	Seam :2A	11.57	594.63-606.2		
	Seam :L2	1.82	602.65-604.47		
	Seam :2A & L2 COM	15.27	601.5-616.77		
	Seam :1A	1.75	656.2-657.94		
	Seam :1B		647.1-659.32		
	Seam :1C	1.45	677.33-678.78		
	Seam :1D	1.46	679.26-680.72		
	Seam :1E	0.66	691.01-691.67		

	Seam :1F	0.9	703.14-704.04		
	Seam :1G	1.03	701.46-702.49		
	Seam :1H	0.98	719.82-720.8		
	Seam :1I	0.88	732.76-733.64		
	Seam :1J	0.46	757.56-758.03		
	Total			**1600**	
7.	**Surface Constraints**	-			
8.	**Grade of coal**	-			
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.			

Note:

1. Geological Report is under preparation, reserve been tentatively assessed.

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.

Kosala West Block, Talcher Coalfield

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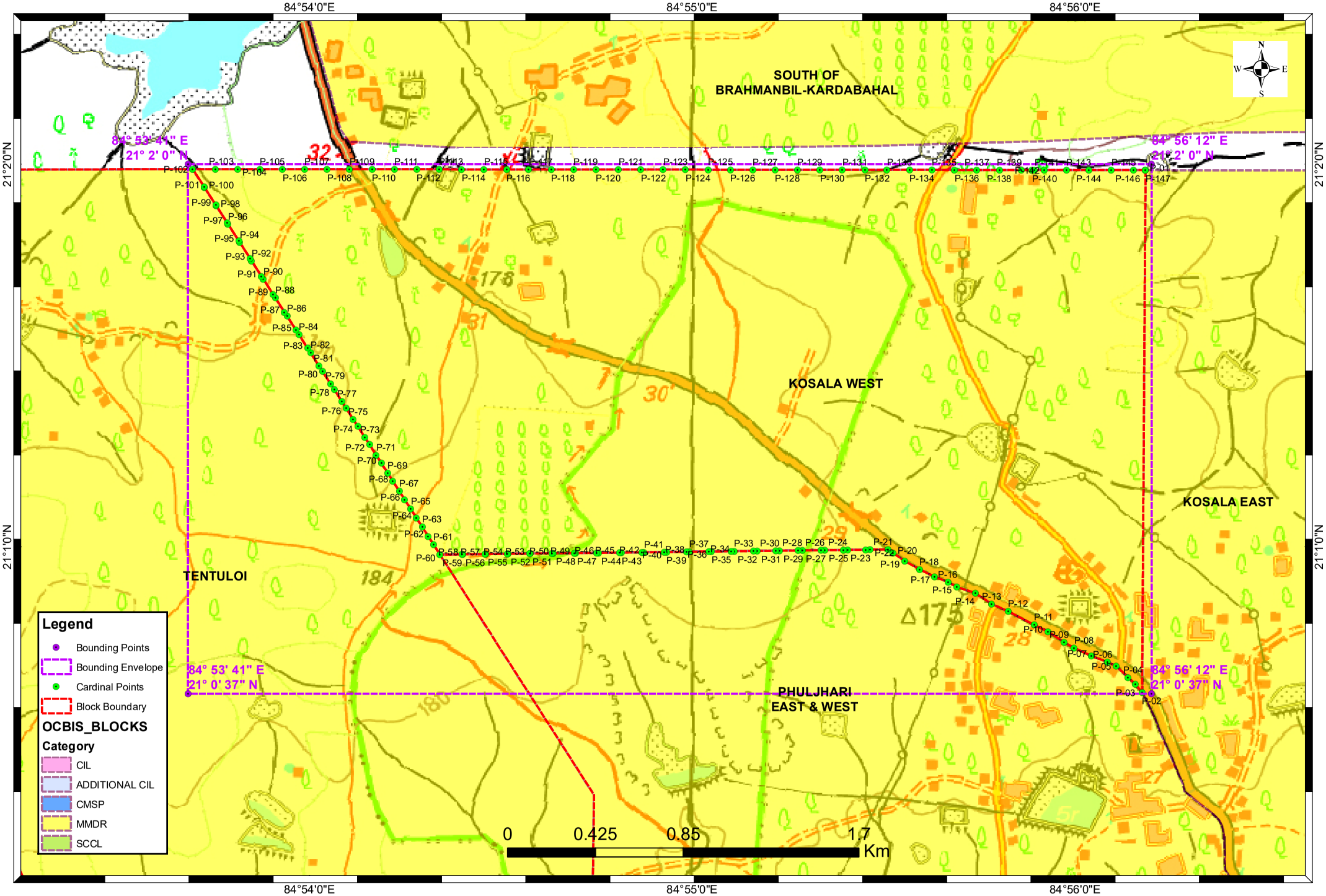

Provisional Cardinal Points for KOSALA WEST Block

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

Provisional Cardinal Points for KOSALA WEST Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
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

Provisional Cardinal Points for KOSALA WEST Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
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

Provisional Cardinal Points for KOSALA WEST Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
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