MAHAN COAL BLOCK SUMMARY

PART A

Sr. No	Features	Details
1.	**Location**	
	Coal Block	**Mahan**
	Latitude	24° 00' 28" N - 24° 03' 09" N (Provisional)
	Longitude	82° 22' 08" E - 82° 24' 41" E (Provisional)
	Topo Sheet No.	63 L/8
	Coalfield	Singrauli Main Basin
	Villages	Budher
	Tehsil/Taluka	Singrauli
	District	Singrauli
	State	Madhya Pradesh
2.	**Connectivity with Block**	
	Nearest Rail Head	Dewragram, the nearest railway station on Chopan-Katni railway line is about 15 km from the block.
	Road	The block is well approachable from Singrauli township and NCL-HQ via Waidhan Tehsil and Rajmilan village by about 70 km long fair weather road. The fair weather approach road of Rajmilan village passes through the northern part of the block and leads to Gajrabahra Railway Halt, which is about 10 km from the western limits of the block.
	Airport	-
3.	**Area**	
	Geological Block Area	**9.8 sq.km.** (Please refer Note No. 3 below)
	Forest Area	Approx. 97% (As per FSI)
	Non-Forest Area	Approx. 3%
4.	**Climate and Topography**	
	Average Annual Rainfall	1142 mm
	Temperature (Min. — Max.)	4°C-48°C
	Local Surface Drainage Channels	The block is traversed by a network of several nalas which flow from the plateau region eastward into the low lying areas where the drainage is controlled by Rampa river and its tributary system, which in turn is part of Rehand River system. The drainage is controlled by northerly flowing Mahan river, which is tributary of Gopad river.

	Rivers	-
5.	**Exploration**	
	Status	Explored
	Exploration Agency	CMDPIL
	Total Number of Boreholes with meterage	62 Boreholes; 7799.85 m
	Borehole Density	Approx. 6.3 Boreholes/sq.km.
	General Dip of Seams	Dips are westerly and are low being 2°-3° in the entire block.
	General Strike Direction	The seams show NNE-SSW strike in the north, gradually swing to NE-SW in the central part and finally to N-S in the southern part of the block.
	Faults	The block is devoid of any fault.
6.	**Coal Seams & Reserve**	

	Coal Seams	Thickness Range (m)	Depth Range (m)	Geological Resources (MT)	Grade
	VIII	0.13-2.45	21.45-134.24	9.422	G11-G14
	VII Top	3.03-8.37	44.10-166.15	47.712	G6-G12
	VII Mid	1.07-3.35	44.10-166.15	15.624	G6-G14
	VII Bot	1.20-5.14	44.10-166.15	26.531	G6-G12
	VII Top+Mid		44.10-166.15	5.5	G6-G10
	VII Mid+Bot		44.10-166.15	2.528	G6-G10
	VI	0.05-2.10			
	V	0.37-5.15			
		Total		**107.407**	

7.	**Surface Constraints**	Very Dense Forest (VDF) is scattered over about 3.72 sq.km of the block.
8.	**Grade of Coal**	G8 (Provisional) based on weighted average grade as per data for underground proposition, available in GR.
9.	**Decision Support System (DSS) Analysis**	Very Dense Forest Info: The polygon is having VDF>1 sq.km (about 3.72 sq.km). Wildlife Info: Polygon touches wildlife habitat-Sloth Bear, Dhole
10.	**Eco Sensitive Zone (ESZ) Analysis**	Approx. 15.7 km to the Sanjay Dubri WLS from the Western block boundary and 24.5 km to the Guru Ghasi Das Sanjay National Park from the Southern block boundary.
11.	**CBA Overlap**	-

PART B

Sr. No.	Features	Details
1.	**Previous Allocation**	
	Name and Address of Allocatee	**Essar Power Ltd., Hindalco Industries Ltd.**
2.	**Tentative Peak Rated Capacity (for u/g mining only)**	**1.20 Mty** (As per the direction of MoC this block has been considered for auction by U/G method of mining only, although revised Mining plan is available for OC method as submitted by prior allotte)
3.	**Status of Clearances/ Approvals (As per information submitted by the prior allottee)**	
	Mining Plan/ Mine Closure Plan	Available for OC method of working approved vide MoC letter No. 13016/30/2005-CA-I dated 14.06.2007 Not available for u/g method of mining.
	Forest Clearance	Stage -2 Clearance granted vide MoEF (FC-Division) letter No. 8-06/2008-FC dated.12.02.2014
	Environmental Clearance	EC granted vide MoEF No. letter dated J-11015/432/2006-IAII(M) Dt 23.12.2008
	Mining Lease	Administrative approval by Central Govt. vide letter no. 13016/30/2005-CA-I dt 26/04/2010
	Land Acquisition	1116 Ha acquired (977.9 Ha within block and 138.1 Ha outside block)

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.

4. As per GR the resources of the block are assessed for Open Cast and Underground Propositions separately for Seam-VII. For OC proposition, Seam-VII is considered as single horizon over whole block and OC resources are **144.208 MT**. For UG proposition, Seam-VII is considered in 3 splits viz. Top Section, Middle Section and Bottom Section and UG resources are **97.895 MT** for Seam-VII sections only. Total resources for block are **107.404 MT** for Seam-VIII & Seam-VII for UG.

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.

Mahan Block, Singrauli Coalfield

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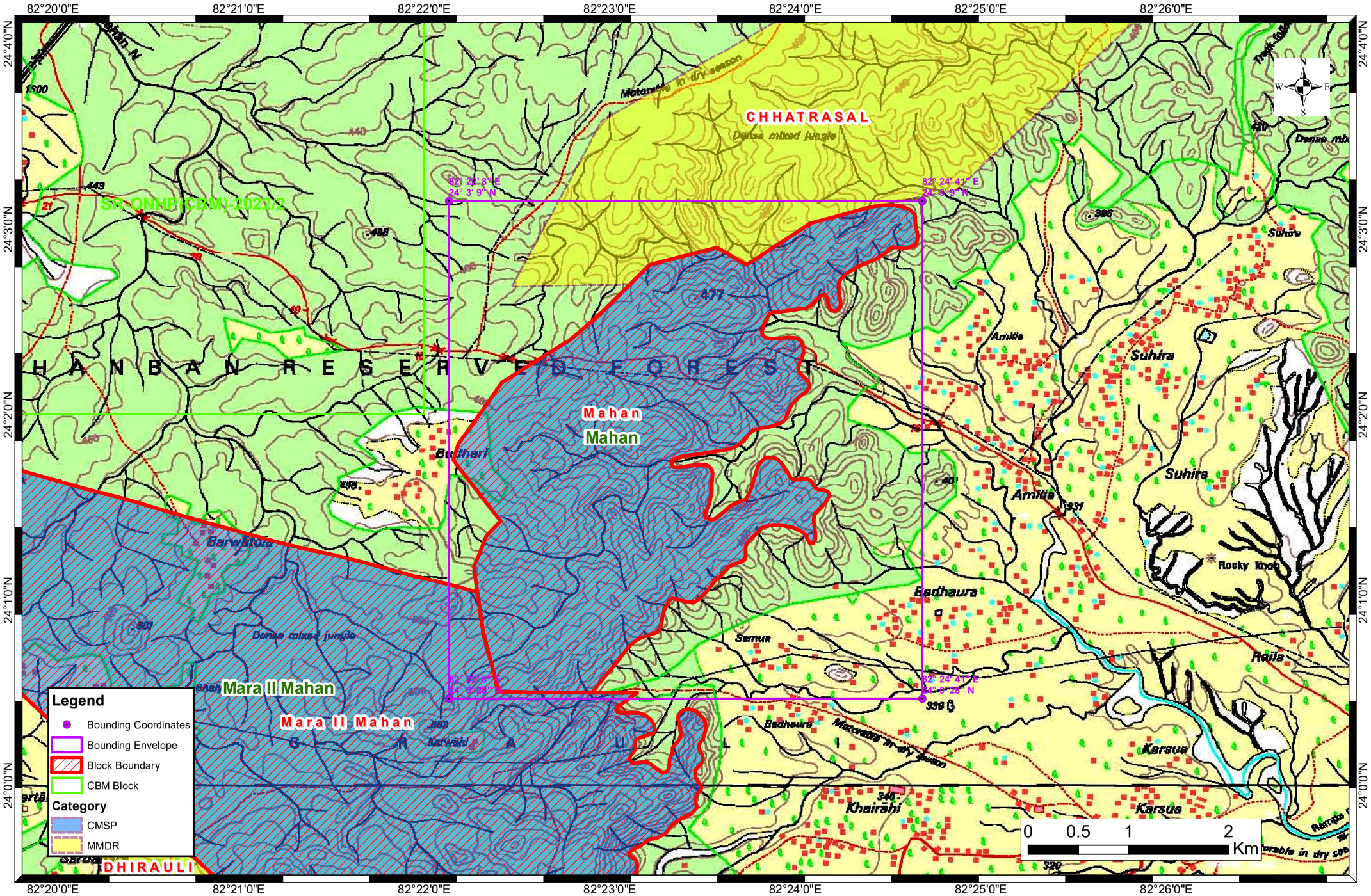

Note: Data is in WGS84 coordinate system.

Provisional Cardinal Points for Mahan Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-1	82° 24' 22.917" E	24° 3' 6.678" N
P-2	82° 24' 27.345" E	24° 3' 7.590" N
P-3	82° 24' 29.733" E	24° 3' 7.634" N
P-4	82° 24' 31.180" E	24° 3' 7.700" N
P-5	82° 24' 32.320" E	24° 3' 7.557" N
P-6	82° 24' 33.488" E	24° 3' 7.388" N
P-7	82° 24' 34.460" E	24° 3' 7.217" N
P-8	82° 24' 35.970" E	24° 3' 6.677" N
P-9	82° 24' 36.847" E	24° 3' 6.208" N
P-10	82° 24' 37.570" E	24° 3' 5.739" N
P-11	82° 24' 38.140" E	24° 3' 5.108" N
P-12	82° 24' 38.539" E	24° 3' 4.613" N
P-13	82° 24' 38.752" E	24° 3' 3.996" N
P-14	82° 24' 38.783" E	24° 3' 3.032" N
P-15	82° 24' 38.935" E	24° 3' 1.210" N
P-16	82° 24' 39.042" E	24° 3' 0.075" N
P-17	82° 24' 39.353" E	24° 2' 59.183" N
P-18	82° 24' 39.633" E	24° 2' 57.689" N
P-19	82° 24' 39.388" E	24° 2' 56.172" N
P-20	82° 24' 39.118" E	24° 2' 55.352" N
P-21	82° 24' 38.715" E	24° 2' 54.724" N
P-22	82° 24' 38.135" E	24° 2' 54.299" N
P-23	82° 24' 37.306" E	24° 2' 54.097" N
P-24	82° 24' 36.113" E	24° 2' 53.967" N
P-25	82° 24' 34.814" E	24° 2' 53.868" N
P-26	82° 24' 33.421" E	24° 2' 53.934" N
P-27	82° 24' 31.920" E	24° 2' 54.057" N
P-28	82° 24' 31.059" E	24° 2' 54.048" N
P-29	82° 24' 30.706" E	24° 2' 53.786" N
P-30	82° 24' 29.965" E	24° 2' 53.056" N
P-31	82° 24' 29.205" E	24° 2' 52.292" N
P-32	82° 24' 28.072" E	24° 2' 51.489" N
P-33	82° 24' 26.212" E	24° 2' 50.334" N
P-34	82° 24' 24.143" E	24° 2' 49.402" N
P-35	82° 24' 22.787" E	24° 2' 48.865" N
P-36	82° 24' 21.425" E	24° 2' 48.318" N
P-37	82° 24' 20.421" E	24° 2' 47.723" N
P-38	82° 24' 18.465" E	24° 2' 46.705" N
P-39	82° 24' 17.275" E	24° 2' 45.971" N
P-40	82° 24' 15.955" E	24° 2' 45.097" N
P-41	82° 24' 14.739" E	24° 2' 43.752" N
P-42	82° 24' 14.277" E	24° 2' 43.128" N
P-43	82° 24' 14.045" E	24° 2' 42.214" N
P-44	82° 24' 13.980" E	24° 2' 41.353" N
P-45	82° 24' 14.135" E	24° 2' 39.375" N
P-46	82° 24' 14.360" E	24° 2' 37.726" N
P-47	82° 24' 14.537" E	24° 2' 37.022" N

Provisional Cardinal Points for Mahan Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-48	82° 24' 14.700" E	24° 2' 35.939" N
P-49	82° 24' 14.617" E	24° 2' 35.044" N
P-50	82° 24' 13.843" E	24° 2' 33.917" N
P-51	82° 24' 13.099" E	24° 2' 33.514" N
P-52	82° 24' 12.388" E	24° 2' 33.404" N
P-53	82° 24' 11.579" E	24° 2' 33.671" N
P-54	82° 24' 10.894" E	24° 2' 34.576" N
P-55	82° 24' 10.575" E	24° 2' 36.139" N
P-56	82° 24' 10.453" E	24° 2' 37.015" N
P-57	82° 24' 10.046" E	24° 2' 38.130" N
P-58	82° 24' 9.683" E	24° 2' 38.677" N
P-59	82° 24' 9.045" E	24° 2' 38.791" N
P-60	82° 24' 8.598" E	24° 2' 38.511" N
P-61	82° 24' 7.819" E	24° 2' 37.884" N
P-62	82° 24' 6.728" E	24° 2' 36.651" N
P-63	82° 24' 5.115" E	24° 2' 35.189" N
P-64	82° 24' 3.280" E	24° 2' 34.171" N
P-65	82° 24' 2.343" E	24° 2' 34.183" N
P-66	82° 24' 0.214" E	24° 2' 33.925" N
P-67	82° 23' 57.689" E	24° 2' 33.534" N
P-68	82° 23' 54.461" E	24° 2' 33.179" N
P-69	82° 23' 52.333" E	24° 2' 32.943" N
P-70	82° 23' 51.681" E	24° 2' 32.570" N
P-71	82° 23' 50.855" E	24° 2' 31.121" N
P-72	82° 23' 50.076" E	24° 2' 29.736" N
P-73	82° 23' 49.420" E	24° 2' 27.794" N
P-74	82° 23' 49.179" E	24° 2' 26.543" N
P-75	82° 23' 49.472" E	24° 2' 25.513" N
P-76	82° 23' 50.295" E	24° 2' 24.876" N
P-77	82° 23' 51.029" E	24° 2' 24.625" N
P-78	82° 23' 52.295" E	24° 2' 24.509" N
P-79	82° 23' 53.644" E	24° 2' 24.523" N
P-80	82° 23' 55.610" E	24° 2' 24.620" N
P-81	82° 23' 57.884" E	24° 2' 24.849" N
P-82	82° 23' 59.656" E	24° 2' 24.712" N
P-83	82° 24' 0.783" E	24° 2' 24.491" N
P-84	82° 24' 1.463" E	24° 2' 24.085" N
P-85	82° 24' 2.147" E	24° 2' 23.240" N
P-86	82° 24' 2.497" E	24° 2' 22.211" N
P-87	82° 24' 2.536" E	24° 2' 21.256" N
P-88	82° 24' 2.638" E	24° 2' 19.734" N
P-89	82° 24' 2.312" E	24° 2' 18.828" N
P-90	82° 24' 1.390" E	24° 2' 16.631" N
P-91	82° 24' 0.955" E	24° 2' 15.405" N
P-92	82° 24' 1.046" E	24° 2' 14.047" N
P-93	82° 24' 1.430" E	24° 2' 13.276" N
P-94	82° 24' 2.112" E	24° 2' 12.664" N

Provisional Cardinal Points for Mahan Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-95	82° 24' 3.229" E	24° 2' 11.711" N
P-96	82° 24' 4.084" E	24° 2' 10.704" N
P-97	82° 24' 4.526" E	24° 2' 9.745" N
P-98	82° 24' 4.613" E	24° 2' 8.901" N
P-99	82° 24' 4.396" E	24° 2' 8.266" N
P-100	82° 24' 3.981" E	24° 2' 7.694" N
P-101	82° 24' 3.383" E	24° 2' 7.185" N
P-102	82° 24' 2.422" E	24° 2' 6.466" N
P-103	82° 24' 1.126" E	24° 2' 5.485" N
P-104	82° 24' 0.042" E	24° 2' 4.519" N
P-105	82° 23' 59.224" E	24° 2' 3.556" N
P-106	82° 23' 58.616" E	24° 2' 2.723" N
P-107	82° 23' 57.795" E	24° 2' 0.857" N
P-108	82° 23' 57.343" E	24° 1' 59.843" N
P-109	82° 23' 56.752" E	24° 1' 58.310" N
P-110	82° 23' 56.314" E	24° 1' 57.790" N
P-111	82° 23' 54.964" E	24° 1' 57.066" N
P-112	82° 23' 53.169" E	24° 1' 56.360" N
P-113	82° 23' 51.208" E	24° 1' 55.845" N
P-114	82° 23' 49.197" E	24° 1' 55.546" N
P-115	82° 23' 47.842" E	24° 1' 55.252" N
P-116	82° 23' 46.327" E	24° 1' 54.656" N
P-117	82° 23' 45.584" E	24° 1' 54.154" N
P-118	82° 23' 44.728" E	24° 1' 53.264" N
P-119	82° 23' 43.991" E	24° 1' 52.224" N
P-120	82° 23' 42.788" E	24° 1' 50.964" N
P-121	82° 23' 41.254" E	24° 1' 49.959" N
P-122	82° 23' 40.089" E	24° 1' 49.305" N
P-123	82° 23' 38.803" E	24° 1' 48.776" N
P-124	82° 23' 36.391" E	24° 1' 48.313" N
P-125	82° 23' 32.744" E	24° 1' 47.786" N
P-126	82° 23' 29.574" E	24° 1' 47.264" N
P-127	82° 23' 26.347" E	24° 1' 46.870" N
P-128	82° 23' 24.258" E	24° 1' 46.547" N
P-129	82° 23' 22.548" E	24° 1' 46.181" N
P-130	82° 23' 21.107" E	24° 1' 45.637" N
P-131	82° 23' 20.273" E	24° 1' 44.880" N
P-132	82° 23' 19.948" E	24° 1' 43.909" N
P-133	82° 23' 20.121" E	24° 1' 43.549" N
P-134	82° 23' 20.465" E	24° 1' 42.968" N
P-135	82° 23' 21.066" E	24° 1' 42.802" N
P-136	82° 23' 22.715" E	24° 1' 42.818" N
P-137	82° 23' 24.397" E	24° 1' 43.145" N
P-138	82° 23' 26.118" E	24° 1' 43.352" N
P-139	82° 23' 27.910" E	24° 1' 43.539" N
P-140	82° 23' 30.100" E	24° 1' 43.716" N
P-141	82° 23' 31.227" E	24° 1' 43.504" N

Provisional Cardinal Points for Mahan Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-142	82° 23' 32.207" E	24° 1' 42.997" N
P-143	82° 23' 32.948" E	24° 1' 42.162" N
P-144	82° 23' 33.204" E	24° 1' 41.132" N
P-145	82° 23' 33.235" E	24° 1' 40.048" N
P-146	82° 23' 33.086" E	24° 1' 38.412" N
P-147	82° 23' 32.957" E	24° 1' 36.672" N
P-148	82° 23' 33.009" E	24° 1' 35.473" N
P-149	82° 23' 32.854" E	24° 1' 34.318" N
P-150	82° 23' 32.502" E	24° 1' 32.439" N
P-151	82° 23' 32.219" E	24° 1' 31.059" N
P-152	82° 23' 31.818" E	24° 1' 30.075" N
P-153	82° 23' 31.140" E	24° 1' 28.829" N
P-154	82° 23' 30.817" E	24° 1' 27.655" N
P-155	82° 23' 30.976" E	24° 1' 26.848" N
P-156	82° 23' 31.516" E	24° 1' 26.334" N
P-157	82° 23' 32.514" E	24° 1' 25.896" N
P-158	82° 23' 33.883" E	24° 1' 26.024" N
P-159	82° 23' 35.500" E	24° 1' 27.098" N
P-160	82° 23' 37.557" E	24° 1' 29.029" N
P-161	82° 23' 38.947" E	24° 1' 30.282" N
P-162	82° 23' 41.714" E	24° 1' 31.549" N
P-163	82° 23' 44.119" E	24° 1' 32.554" N
P-164	82° 23' 44.944" E	24° 1' 34.102" N
P-165	82° 23' 46.110" E	24° 1' 36.901" N
P-166	82° 23' 47.078" E	24° 1' 40.542" N
P-167	82° 23' 48.038" E	24° 1' 43.340" N
P-168	82° 23' 49.150" E	24° 1' 44.865" N
P-169	82° 23' 50.066" E	24° 1' 45.855" N
P-170	82° 23' 51.229" E	24° 1' 46.112" N
P-171	82° 23' 52.636" E	24° 1' 45.945" N
P-172	82° 23' 53.763" E	24° 1' 45.685" N
P-173	82° 23' 54.393" E	24° 1' 45.282" N
P-174	82° 23' 55.202" E	24° 1' 44.593" N
P-175	82° 23' 56.029" E	24° 1' 43.569" N
P-176	82° 23' 56.703" E	24° 1' 42.492" N
P-177	82° 23' 57.700" E	24° 1' 40.900" N
P-178	82° 23' 58.457" E	24° 1' 39.504" N
P-179	82° 23' 59.182" E	24° 1' 38.879" N
P-180	82° 24' 0.054" E	24° 1' 38.758" N
P-181	82° 24' 1.711" E	24° 1' 38.970" N
P-182	82° 24' 3.030" E	24° 1' 39.125" N
P-183	82° 24' 4.001" E	24° 1' 38.980" N
P-184	82° 24' 4.850" E	24° 1' 38.537" N
P-185	82° 24' 5.404" E	24° 1' 38.000" N
P-186	82° 24' 5.667" E	24° 1' 37.190" N
P-187	82° 24' 6.126" E	24° 1' 36.667" N
P-188	82° 24' 6.609" E	24° 1' 36.032" N

Provisional Cardinal Points for Mahan Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-189	82° 24' 7.543" E	24° 1' 35.692" N
P-190	82° 24' 9.004" E	24° 1' 35.514" N
P-191	82° 24' 10.386" E	24° 1' 35.089" N
P-192	82° 24' 10.728" E	24° 1' 34.731" N
P-193	82° 24' 10.835" E	24° 1' 33.958" N
P-194	82° 24' 10.774" E	24° 1' 33.235" N
P-195	82° 24' 10.376" E	24° 1' 32.405" N
P-196	82° 24' 9.614" E	24° 1' 31.263" N
P-197	82° 24' 8.602" E	24° 1' 30.065" N
P-198	82° 24' 6.416" E	24° 1' 27.842" N
P-199	82° 24' 6.035" E	24° 1' 26.741" N
P-200	82° 24' 5.978" E	24° 1' 25.618" N
P-201	82° 24' 6.097" E	24° 1' 23.915" N
P-202	82° 24' 6.376" E	24° 1' 21.907" N
P-203	82° 24' 6.537" E	24° 1' 20.793" N
P-204	82° 24' 6.411" E	24° 1' 19.428" N
P-205	82° 24' 5.656" E	24° 1' 18.251" N
P-206	82° 24' 5.290" E	24° 1' 18.179" N
P-207	82° 24' 4.806" E	24° 1' 18.262" N
P-208	82° 24' 4.496" E	24° 1' 18.447" N
P-209	82° 24' 4.027" E	24° 1' 19.483" N
P-210	82° 24' 3.222" E	24° 1' 21.006" N
P-211	82° 24' 2.559" E	24° 1' 21.602" N
P-212	82° 24' 1.690" E	24° 1' 22.230" N
P-213	82° 24' 0.805" E	24° 1' 22.634" N
P-214	82° 23' 59.238" E	24° 1' 23.428" N
P-215	82° 23' 57.642" E	24° 1' 23.713" N
P-216	82° 23' 55.342" E	24° 1' 24.163" N
P-217	82° 23' 53.515" E	24° 1' 24.188" N
P-218	82° 23' 51.597" E	24° 1' 24.039" N
P-219	82° 23' 49.869" E	24° 1' 23.549" N
P-220	82° 23' 48.844" E	24° 1' 23.108" N
P-221	82° 23' 47.774" E	24° 1' 21.664" N
P-222	82° 23' 46.588" E	24° 1' 20.585" N
P-223	82° 23' 45.144" E	24° 1' 19.091" N
P-224	82° 23' 44.183" E	24° 1' 18.014" N
P-225	82° 23' 43.897" E	24° 1' 16.841" N
P-226	82° 23' 43.956" E	24° 1' 15.052" N
P-227	82° 23' 44.044" E	24° 1' 13.986" N
P-228	82° 23' 43.607" E	24° 1' 12.880" N
P-229	82° 23' 42.901" E	24° 1' 12.391" N
P-230	82° 23' 41.932" E	24° 1' 12.003" N
P-231	82° 23' 40.512" E	24° 1' 11.679" N
P-232	82° 23' 39.579" E	24° 1' 11.325" N
P-233	82° 23' 38.427" E	24° 1' 10.522" N
P-234	82° 23' 37.539" E	24° 1' 9.529" N
P-235	82° 23' 35.513" E	24° 1' 7.366" N

Provisional Cardinal Points for Mahan Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-236	82° 23' 33.734" E	24° 1' 5.748" N
P-237	82° 23' 32.406" E	24° 1' 3.979" N
P-238	82° 23' 30.771" E	24° 1' 2.053" N
P-239	82° 23' 28.919" E	24° 1' 0.201" N
P-240	82° 23' 27.691" E	24° 0' 59.492" N
P-241	82° 23' 26.542" E	24° 0' 59.222" N
P-242	82° 23' 25.671" E	24° 0' 59.213" N
P-243	82° 23' 24.151" E	24° 0' 59.405" N
P-244	82° 23' 22.967" E	24° 0' 59.780" N
P-245	82° 23' 21.387" E	24° 1' 0.280" N
P-246	82° 23' 20.234" E	24° 1' 0.398" N
P-247	82° 23' 19.397" E	24° 0' 59.821" N
P-248	82° 23' 18.790" E	24° 0' 58.886" N
P-249	82° 23' 18.213" E	24° 0' 57.822" N
P-250	82° 23' 17.554" E	24° 0' 56.524" N
P-251	82° 23' 17.097" E	24° 0' 54.816" N
P-252	82° 23' 16.944" E	24° 0' 53.472" N
P-253	82° 23' 16.600" E	24° 0' 51.714" N
P-254	82° 23' 16.190" E	24° 0' 50.729" N
P-255	82° 23' 15.805" E	24° 0' 50.030" N
P-256	82° 23' 15.379" E	24° 0' 49.578" N
P-257	82° 23' 14.262" E	24° 0' 49.051" N
P-258	82° 23' 12.564" E	24° 0' 48.483" N
P-259	82° 23' 10.995" E	24° 0' 48.037" N
P-260	82° 23' 9.578" E	24° 0' 47.472" N
P-261	82° 23' 8.443" E	24° 0' 46.841" N
P-262	82° 23' 7.293" E	24° 0' 45.917" N
P-263	82° 23' 6.478" E	24° 0' 45.135" N
P-264	82° 23' 5.395" E	24° 0' 43.801" N
P-265	82° 23' 1.631" E	24° 0' 38.996" N
P-266	82° 22' 56.593" E	24° 0' 32.991" N
P-267	82° 22' 54.350" E	24° 0' 29.983" N
P-268	82° 22' 52.511" E	24° 0' 29.995" N
P-269	82° 22' 48.665" E	24° 0' 29.995" N
P-270	82° 22' 43.662" E	24° 0' 29.995" N
P-271	82° 22' 32.627" E	24° 0' 30.085" N
P-272	82° 22' 24.681" E	24° 0' 30.213" N
P-273	82° 22' 24.141" E	24° 0' 30.214" N
P-274	82° 22' 23.293" E	24° 0' 33.281" N
P-275	82° 22' 21.389" E	24° 0' 40.374" N
P-276	82° 22' 20.672" E	24° 0' 43.255" N
P-277	82° 22' 19.456" E	24° 0' 47.641" N
P-278	82° 22' 19.136" E	24° 0' 48.875" N
P-279	82° 22' 18.609" E	24° 0' 52.666" N
P-280	82° 22' 18.378" E	24° 0' 54.336" N
P-281	82° 22' 17.225" E	24° 1' 2.380" N
P-282	82° 22' 16.593" E	24° 1' 6.789" N

Provisional Cardinal Points for Mahan Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-283	82° 22' 16.096" E	24° 1' 10.704" N
P-284	82° 22' 17.595" E	24° 1' 14.248" N
P-285	82° 22' 20.150" E	24° 1' 20.672" N
P-286	82° 22' 22.733" E	24° 1' 23.345" N
P-287	82° 22' 24.719" E	24° 1' 25.454" N
P-288	82° 22' 20.693" E	24° 1' 30.594" N
P-289	82° 22' 13.353" E	24° 1' 40.028" N
P-290	82° 22' 11.482" E	24° 1' 42.426" N
P-291	82° 22' 9.397" E	24° 1' 45.202" N
P-292	82° 22' 10.073" E	24° 1' 47.463" N
P-293	82° 22' 11.120" E	24° 1' 50.464" N
P-294	82° 22' 12.640" E	24° 1' 52.595" N
P-295	82° 22' 13.357" E	24° 1' 53.622" N
P-296	82° 22' 16.072" E	24° 1' 57.438" N
P-297	82° 22' 18.063" E	24° 2' 0.232" N
P-298	82° 22' 20.018" E	24° 2' 2.979" N
P-299	82° 22' 25.176" E	24° 2' 10.331" N
P-300	82° 22' 29.005" E	24° 2' 12.670" N
P-301	82° 22' 32.530" E	24° 2' 14.923" N
P-302	82° 22' 35.278" E	24° 2' 16.643" N
P-303	82° 22' 38.843" E	24° 2' 18.895" N
P-304	82° 22' 41.529" E	24° 2' 20.578" N
P-305	82° 22' 44.458" E	24° 2' 22.454" N
P-306	82° 22' 47.007" E	24° 2' 23.994" N
P-307	82° 22' 52.815" E	24° 2' 28.963" N
P-308	82° 22' 57.436" E	24° 2' 33.071" N
P-309	82° 23' 1.463" E	24° 2' 37.063" N
P-310	82° 23' 6.658" E	24° 2' 42.196" N
P-311	82° 23' 8.659" E	24° 2' 44.173" N
P-312	82° 23' 12.835" E	24° 2' 48.349" N
P-313	82° 23' 16.357" E	24° 2' 49.270" N
P-314	82° 23' 16.364" E	24° 2' 49.272" N
P-315	82° 23' 17.011" E	24° 2' 49.441" N
P-316	82° 23' 28.314" E	24° 2' 52.330" N
P-317	82° 23' 34.322" E	24° 2' 53.857" N
P-318	82° 23' 34.717" E	24° 2' 53.958" N
P-319	82° 23' 44.120" E	24° 2' 48.410" N
P-320	82° 23' 44.175" E	24° 2' 48.379" N
P-321	82° 23' 45.302" E	24° 2' 49.082" N
P-322	82° 23' 48.124" E	24° 2' 50.874" N
P-323	82° 23' 54.340" E	24° 2' 54.940" N
P-324	82° 24' 0.114" E	24° 2' 58.675" N
P-325	82° 24' 4.825" E	24° 3' 1.812" N
P-326	82° 24' 10.500" E	24° 3' 3.354" N
P-327	82° 24' 14.205" E	24° 3' 4.275" N
P-328	82° 24' 22.917" E	24° 3' 6.678" N

Provisional Cardinal Points for Mahan Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)

Note: The provisional cardinal points are in WGS84 coordinate system. These points are extracted through ArcGIS software after georeferencing of block boundary and onground DGPS survey is required to acertain the exact location of the points.