

West of Shahdol Block Summary
PART A

Sr. No.	Features	Details
1.	Location	
	Coal Block	West of Shahdol Block
	Latitude	23° 17' 40" N - 23° 20' 17" N (Provisional)
	Longitude	81° 17' 18" E - 81° 20' 49" E (Provisional)
	Topo Sheet No.	64E/7
	Coalfield	Sohagpur
	Villages	Shahdol, Pataleshwar, Bandhwabara, Bandhwakhurd, Chandania, Kannabakra, Deogawa, Semaria and Amiliha
	Tehsil/Taluka	Pali & Sohagpur
	District	Umaria & Shahdol
	State	Madhya Pradesh
2.	Connectivity with Block	
	Nearest Rail Head	The nearest railway station is Bhandwabara on Katni-Bilaspur line of South East-Central railway located at the southern boundary of the block. The major railway station is Shahdol located at about 2 km from the block boundary.
	Road	Shahdol, located on the National Highway 43 (Katni-Shahdol-Ambikapur), is the nearest town. Outskirts of Shahdol town are within the block at the southeastern corner. NH43 connecting Shahdol with district headquarters Umaria is passing across the block.
	Airport	The Jabalpur Airport is the nearest airport from West of Shahdol block at about 133 km away. Raipur Airport is located at a distance of ~306 km.
3.	Area	
	Geological Block Area	Explored Area: 26.17 sq.km. (as per GR) Revised Area: 24.2 sq.km. (as per the suggestions in minutes of 13 th Meeting)
	Green Cover	Approx. 35% (As per FSI Map)
	Non-Forest Area	Approx. 65%
4.	Climate and Topography	
	Average Annual Rainfall	1000 mm - 1700 mm
	Temperature (Min. — Max.)	7°C-43°C
	Local Surface Drainage Channels	Northerly flowing Murna Nala is the main drainage system in this area, which finally joins Son river beyond block boundary. Small seasonal nalas, Hundarha, Jamuniha & Baghaunra drains to Barua nala which flows into Basar nala which finally joins Murna Nala. In the southern part, Semariha nala drains to Bandhwa nala which joins Murna nala. Takteona nala directly drains to the main Murna Nala/River. One surface water body is located near Amiliha & Semaria villages.
	Rivers	-

5.	Exploration				
	Status	Explored			
	Exploration Agency	MECL, CMPDI			
	Total Number of Boreholes with meterage	132 boreholes & 45288.00 m			
	Borehole Density	About 5 boreholes per sq. km			
	General Dip of Seams	The direction of dip is generally 4-6° towards east in northern part and towards southeast in southern part.			
	General Strike Direction	Strike is NEE-SWW in the southern part and mostly N-S in the northern part, separated by a complex E-W trending fault system with variable throws at the central part.			
	Faults	The structure of West of Shahdol block is simple in the northern and southern parts, but complex in the central part. In total, this block is traversed by 15 no. of faults. Most of the faults are dip to oblique faults which are curvilinear at places. Throw of these faults is ranging between 0m to 220m.			
6.	Coal Seams & Resources				
	Coal Seams	Thickness Range (m)	Depth Range (m)	Resources (MT)	Grade
	IV	0.11-2.35	3.23-277.16	27.35	G16-G1
	III Top(Top)	0.37-2.45	43.80-266.05	0.67	-
	III Top(Bot)	0.50-2.15	46.10-268.56	1.19	-
	III Top (Comb)	0.05-6.08	9.28-321.00	47.43	G16-G3
	III Mid	0.11-3.68	14.46-336.00	12.6	G16-G4
	III Bot	0.03-1.50	18.47-341.30	12.02	G17-G2
	II Top	0.03-3.38	78.40-359.02	6.15	G11-G4
	II Bot	0.05-4.20	45.25-382.40	36.26	G12-G2
	IB	0.02-2.27	58.14-387.14	7.23	G16-G3
	IA	0.03-2.05	54.00-415.40	3.03	G14-G2
	I	0.02-2.70	61.57-418.62	0.78	G15-G2
	Total			154.71	
	<p>The resources of the block are 169.07 MT. However, there is a water body/reservoir in the northern boundary of the block in the north of Amelia & Semaria Villages. Also, there is Shahdol township in the south-eastern corner of the block, beyond Bandwa Nala. The resources for the block are re-estimated excluding these two major barriers and these are 154.71 MT in about 24.2 sqkm area.</p> <p>In addition to this, as per the requirement of National Coal Inventory, seam-wise estimation of resources was done for 0.50m to 0.90 m thickness range which is 44.67 MT.</p>				
7.	Surface Constraints	The southwestern part of the block is covered with Sohagpur Reserved Forest. A small patch of Protected forest is located near Pataleshwar and Deogawa villages and a small area at the southeastern part is covered by Shahdol township.			

8.	Grade of coal	G8 (Provisional) based on weighted average grade of grade-wise data given in the GR.
9.	Decision Support System (DSS) Analysis	Hydrology info: The polygon touches major river(s)- Arar , Murna Nala Wildlife info: The polygon touches Wildlife Habitat(s), Sloth Bear, Dhole
10.	Eco Sensitive Zone (ESZ) Analysis	The buffer boundary of BANDHAV GARH_TIGER and TR-PA of Bandhavgarh is Approx.20 km away from Northern block boundary.Tiger corridor between BANDHAV GARH & Achanakmar is Approx.8.5 km away from western boundary of the block.

PART B

Sr. No.	Features	Details
1	Tentative Peak rated Capacity	1.5Mty

Note:

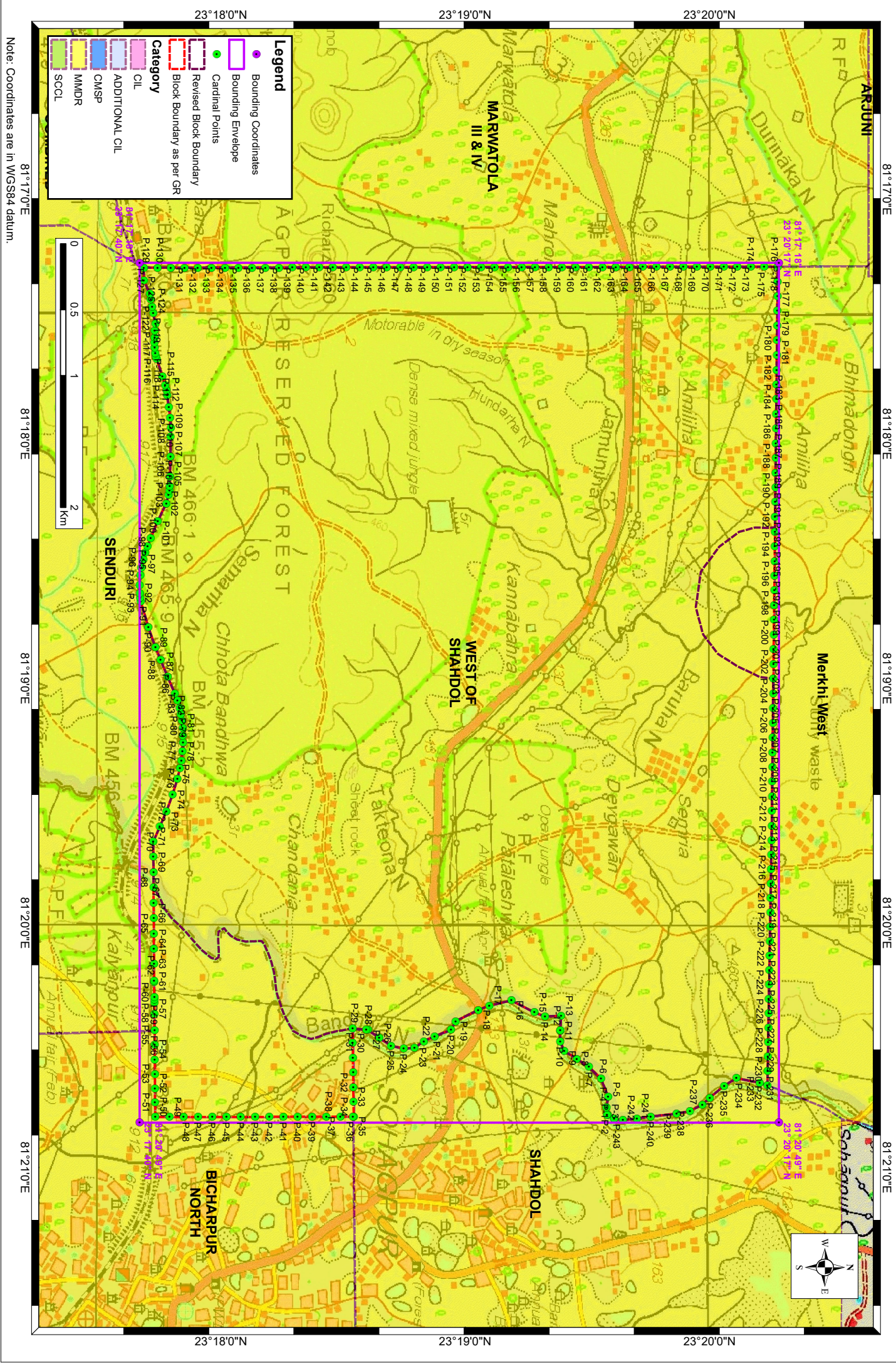
1. The above data is compiled from Geological Report, Mining Plan and the data furnished by the prior allottee in Annexure-I/II, as available. For clarifications with regard to above data, please refer aforesaid source documents.
2. The boundary of the block has been taken from GR after conversion to 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. The summary has been compiled from “Geological Report on Exploration for Coal in West of Shahdol Block, Sohagpur Coalfield, District- Umaria & Shahdol, Madhya Pradesh, CMPDIL-2021”.
5. The boundary of the block is revised to exclude the water body in the northern part and beyond Bandhwa Nala in the south-eastern corner and revised resources as per the revised boundary are given in the ‘Coal Seams & Reserves’ table above.

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.

West of Shabdol Block, Sohagpur Coalfield

FOR INTERNAL/RESTRICTED USE ONLY



Note: Coordinates are in WGS84 datum.

Provisional Cardinal Points for WEST OF SHAHDOL Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-1	81° 20' 48.039" E	23° 19' 36.513" N
P-2	81° 20' 47.028" E	23° 19' 35.011" N
P-3	81° 20' 47.092" E	23° 19' 34.781" N
P-4	81° 20' 45.146" E	23° 19' 34.667" N
P-5	81° 20' 42.600" E	23° 19' 35.075" N
P-6	81° 20' 38.240" E	23° 19' 33.289" N
P-7	81° 20' 35.271" E	23° 19' 30.354" N
P-8	81° 20' 33.329" E	23° 19' 27.300" N
P-9	81° 20' 31.387" E	23° 19' 24.247" N
P-10	81° 20' 29.062" E	23° 19' 23.306" N
P-11	81° 20' 26.524" E	23° 19' 23.263" N
P-12	81° 20' 26.357" E	23° 19' 23.311" N
P-13	81° 20' 22.759" E	23° 19' 23.513" N
P-14	81° 20' 22.933" E	23° 19' 19.498" N
P-15	81° 20' 21.943" E	23° 19' 16.949" N
P-16	81° 20' 19.027" E	23° 19' 11.310" N
P-17	81° 20' 20.268" E	23° 19' 5.916" N
P-18	81° 20' 21.363" E	23° 19' 3.140" N
P-19	81° 20' 24.120" E	23° 18' 57.596" N
P-20	81° 20' 26.222" E	23° 18' 56.496" N
P-21	81° 20' 27.815" E	23° 18' 52.418" N
P-22	81° 20' 29.001" E	23° 18' 49.818" N
P-23	81° 20' 30.654" E	23° 18' 47.487" N
P-24	81° 20' 30.800" E	23° 18' 44.870" N
P-25	81° 20' 30.106" E	23° 18' 41.714" N
P-26	81° 20' 28.175" E	23° 18' 38.887" N
P-27	81° 20' 26.245" E	23° 18' 36.060" N
P-28	81° 20' 26.201" E	23° 18' 35.632" N
P-29	81° 20' 25.856" E	23° 18' 32.289" N
P-30	81° 20' 29.470" E	23° 18' 32.337" N
P-31	81° 20' 33.084" E	23° 18' 32.384" N
P-32	81° 20' 36.698" E	23° 18' 32.432" N
P-33	81° 20' 40.312" E	23° 18' 32.480" N
P-34	81° 20' 43.926" E	23° 18' 32.527" N
P-35	81° 20' 47.540" E	23° 18' 32.575" N
P-36	81° 20' 47.541" E	23° 18' 32.394" N
P-37	81° 20' 47.553" E	23° 18' 29.328" N
P-38	81° 20' 47.558" E	23° 18' 25.829" N
P-39	81° 20' 47.564" E	23° 18' 22.330" N
P-40	81° 20' 47.569" E	23° 18' 18.832" N
P-41	81° 20' 47.574" E	23° 18' 15.333" N
P-42	81° 20' 47.579" E	23° 18' 11.834" N
P-43	81° 20' 47.584" E	23° 18' 8.335" N
P-44	81° 20' 47.589" E	23° 18' 4.837" N
P-45	81° 20' 47.594" E	23° 18' 1.338" N
P-46	81° 20' 47.599" E	23° 17' 57.839" N
P-47	81° 20' 47.604" E	23° 17' 54.340" N

Provisional Cardinal Points for WEST OF SHAHDOL Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-48	81° 20' 47.609" E	23° 17' 50.841" N
P-49	81° 20' 47.615" E	23° 17' 47.343" N
P-50	81° 20' 47.620" E	23° 17' 43.844" N
P-51	81° 20' 44.084" E	23° 17' 43.817" N
P-52	81° 20' 40.548" E	23° 17' 43.790" N
P-53	81° 20' 37.012" E	23° 17' 43.763" N
P-54	81° 20' 33.476" E	23° 17' 43.737" N
P-55	81° 20' 29.940" E	23° 17' 43.710" N
P-56	81° 20' 26.404" E	23° 17' 43.683" N
P-57	81° 20' 22.321" E	23° 17' 43.652" N
P-58	81° 20' 19.592" E	23° 17' 43.631" N
P-59	81° 20' 18.767" E	23° 17' 43.625" N
P-60	81° 20' 18.238" E	23° 17' 43.621" N
P-61	81° 20' 14.420" E	23° 17' 43.591" N
P-62	81° 20' 14.156" E	23° 17' 43.589" N
P-63	81° 20' 10.073" E	23° 17' 43.558" N
P-64	81° 20' 6.316" E	23° 17' 43.536" N
P-65	81° 20' 2.558" E	23° 17' 43.513" N
P-66	81° 19' 58.801" E	23° 17' 43.490" N
P-67	81° 19' 55.044" E	23° 17' 43.467" N
P-68	81° 19' 51.287" E	23° 17' 43.444" N
P-69	81° 19' 47.530" E	23° 17' 43.421" N
P-70	81° 19' 43.772" E	23° 17' 43.398" N
P-71	81° 19' 40.015" E	23° 17' 43.376" N
P-72	81° 19' 36.356" E	23° 17' 44.990" N
P-73	81° 19' 32.697" E	23° 17' 46.605" N
P-74	81° 19' 28.537" E	23° 17' 48.110" N
P-75	81° 19' 24.619" E	23° 17' 49.321" N
P-76	81° 19' 22.030" E	23° 17' 49.907" N
P-77	81° 19' 20.154" E	23° 17' 50.265" N
P-78	81° 19' 17.927" E	23° 17' 50.514" N
P-79	81° 19' 15.769" E	23° 17' 50.645" N
P-80	81° 19' 14.019" E	23° 17' 50.641" N
P-81	81° 19' 12.142" E	23° 17' 50.582" N
P-82	81° 19' 10.284" E	23° 17' 50.396" N
P-83	81° 19' 8.722" E	23° 17' 50.125" N
P-84	81° 19' 7.209" E	23° 17' 49.836" N
P-85	81° 19' 5.401" E	23° 17' 49.297" N
P-86	81° 19' 3.750" E	23° 17' 48.672" N
P-87	81° 18' 59.607" E	23° 17' 46.912" N
P-88	81° 18' 55.465" E	23° 17' 45.153" N
P-89	81° 18' 52.356" E	23° 17' 43.925" N
P-90	81° 18' 47.417" E	23° 17' 42.158" N
P-91	81° 18' 41.068" E	23° 17' 40.287" N
P-92	81° 18' 40.200" E	23° 17' 40.153" N
P-93	81° 18' 39.043" E	23° 17' 40.065" N
P-94	81° 18' 37.046" E	23° 17' 40.008" N

Provisional Cardinal Points for WEST OF SHAHDOL Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-95	81° 18' 34.645" E	23° 17' 40.207" N
P-96	81° 18' 32.754" E	23° 17' 40.469" N
P-97	81° 18' 30.780" E	23° 17' 40.932" N
P-98	81° 18' 29.063" E	23° 17' 41.448" N
P-99	81° 18' 27.502" E	23° 17' 41.986" N
P-100	81° 18' 25.554" E	23° 17' 42.763" N
P-101	81° 18' 21.382" E	23° 17' 44.464" N
P-102	81° 18' 17.093" E	23° 17' 46.564" N
P-103	81° 18' 14.888" E	23° 17' 47.149" N
P-104	81° 18' 13.874" E	23° 17' 47.310" N
P-105	81° 18' 12.795" E	23° 17' 47.419" N
P-106	81° 18' 10.486" E	23° 17' 47.451" N
P-107	81° 18' 5.497" E	23° 17' 47.595" N
P-108	81° 18' 0.660" E	23° 17' 47.636" N
P-109	81° 17' 58.515" E	23° 17' 47.693" N
P-110	81° 17' 56.017" E	23° 17' 47.511" N
P-111	81° 17' 53.375" E	23° 17' 47.210" N
P-112	81° 17' 50.546" E	23° 17' 46.813" N
P-113	81° 17' 49.248" E	23° 17' 46.619" N
P-114	81° 17' 48.015" E	23° 17' 46.302" N
P-115	81° 17' 45.843" E	23° 17' 45.630" N
P-116	81° 17' 41.533" E	23° 17' 44.174" N
P-117	81° 17' 40.899" E	23° 17' 43.970" N
P-118	81° 17' 40.189" E	23° 17' 43.870" N
P-119	81° 17' 38.853" E	23° 17' 43.730" N
P-120	81° 17' 37.502" E	23° 17' 43.681" N
P-121	81° 17' 36.306" E	23° 17' 43.706" N
P-122	81° 17' 34.647" E	23° 17' 43.745" N
P-123	81° 17' 32.942" E	23° 17' 43.908" N
P-124	81° 17' 30.386" E	23° 17' 43.373" N
P-125	81° 17' 28.793" E	23° 17' 43.099" N
P-126	81° 17' 26.942" E	23° 17' 42.776" N
P-127	81° 17' 25.518" E	23° 17' 42.530" N
P-128	81° 17' 22.437" E	23° 17' 41.087" N
P-129	81° 17' 19.228" E	23° 17' 41.092" N
P-130	81° 17' 19.223" E	23° 17' 44.403" N
P-131	81° 17' 19.218" E	23° 17' 47.714" N
P-132	81° 17' 19.212" E	23° 17' 51.024" N
P-133	81° 17' 19.207" E	23° 17' 54.335" N
P-134	81° 17' 19.201" E	23° 17' 57.645" N
P-135	81° 17' 19.196" E	23° 18' 0.956" N
P-136	81° 17' 19.191" E	23° 18' 4.266" N
P-137	81° 17' 19.185" E	23° 18' 7.577" N
P-138	81° 17' 19.180" E	23° 18' 10.888" N
P-139	81° 17' 19.174" E	23° 18' 14.198" N
P-140	81° 17' 19.169" E	23° 18' 17.509" N
P-141	81° 17' 19.164" E	23° 18' 20.819" N

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POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-142	81° 17' 19.158" E	23° 18' 24.130" N
P-143	81° 17' 19.153" E	23° 18' 27.440" N
P-144	81° 17' 19.147" E	23° 18' 30.751" N
P-145	81° 17' 19.142" E	23° 18' 34.062" N
P-146	81° 17' 19.137" E	23° 18' 37.372" N
P-147	81° 17' 19.131" E	23° 18' 40.683" N
P-148	81° 17' 19.126" E	23° 18' 43.993" N
P-149	81° 17' 19.120" E	23° 18' 47.304" N
P-150	81° 17' 19.115" E	23° 18' 50.614" N
P-151	81° 17' 19.110" E	23° 18' 53.925" N
P-152	81° 17' 19.104" E	23° 18' 57.235" N
P-153	81° 17' 19.099" E	23° 19' 0.546" N
P-154	81° 17' 19.093" E	23° 19' 3.857" N
P-155	81° 17' 19.088" E	23° 19' 7.167" N
P-156	81° 17' 19.083" E	23° 19' 10.478" N
P-157	81° 17' 19.077" E	23° 19' 13.788" N
P-158	81° 17' 19.072" E	23° 19' 17.099" N
P-159	81° 17' 19.066" E	23° 19' 20.409" N
P-160	81° 17' 19.061" E	23° 19' 23.720" N
P-161	81° 17' 19.056" E	23° 19' 27.030" N
P-162	81° 17' 19.050" E	23° 19' 30.341" N
P-163	81° 17' 19.045" E	23° 19' 33.651" N
P-164	81° 17' 19.039" E	23° 19' 36.962" N
P-165	81° 17' 19.034" E	23° 19' 40.273" N
P-166	81° 17' 19.029" E	23° 19' 43.583" N
P-167	81° 17' 19.023" E	23° 19' 46.894" N
P-168	81° 17' 19.018" E	23° 19' 50.204" N
P-169	81° 17' 19.012" E	23° 19' 53.515" N
P-170	81° 17' 19.007" E	23° 19' 56.825" N
P-171	81° 17' 19.002" E	23° 20' 0.136" N
P-172	81° 17' 18.996" E	23° 20' 3.446" N
P-173	81° 17' 18.991" E	23° 20' 6.757" N
P-174	81° 17' 18.985" E	23° 20' 10.067" N
P-175	81° 17' 18.980" E	23° 20' 13.378" N
P-176	81° 17' 18.975" E	23° 20' 16.689" N
P-177	81° 17' 22.585" E	23° 20' 16.650" N
P-178	81° 17' 26.195" E	23° 20' 16.612" N
P-179	81° 17' 29.805" E	23° 20' 16.573" N
P-180	81° 17' 33.416" E	23° 20' 16.534" N
P-181	81° 17' 37.026" E	23° 20' 16.496" N
P-182	81° 17' 40.636" E	23° 20' 16.457" N
P-183	81° 17' 44.247" E	23° 20' 16.419" N
P-184	81° 17' 47.857" E	23° 20' 16.380" N
P-185	81° 17' 51.467" E	23° 20' 16.341" N
P-186	81° 17' 55.077" E	23° 20' 16.303" N
P-187	81° 17' 58.688" E	23° 20' 16.264" N
P-188	81° 18' 2.298" E	23° 20' 16.225" N

Provisional Cardinal Points for WEST OF SHAHDOL Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-189	81° 18' 5.908" E	23° 20' 16.187" N
P-190	81° 18' 9.518" E	23° 20' 16.148" N
P-191	81° 18' 13.129" E	23° 20' 16.109" N
P-192	81° 18' 16.739" E	23° 20' 16.070" N
P-193	81° 18' 20.349" E	23° 20' 16.031" N
P-194	81° 18' 23.959" E	23° 20' 15.992" N
P-195	81° 18' 27.570" E	23° 20' 15.954" N
P-196	81° 18' 31.180" E	23° 20' 15.915" N
P-197	81° 18' 34.790" E	23° 20' 15.876" N
P-198	81° 18' 38.400" E	23° 20' 15.837" N
P-199	81° 18' 42.011" E	23° 20' 15.798" N
P-200	81° 18' 45.621" E	23° 20' 15.759" N
P-201	81° 18' 49.231" E	23° 20' 15.720" N
P-202	81° 18' 52.842" E	23° 20' 15.681" N
P-203	81° 18' 56.452" E	23° 20' 15.642" N
P-204	81° 19' 0.062" E	23° 20' 15.603" N
P-205	81° 19' 3.672" E	23° 20' 15.563" N
P-206	81° 19' 7.283" E	23° 20' 15.524" N
P-207	81° 19' 10.893" E	23° 20' 15.485" N
P-208	81° 19' 14.503" E	23° 20' 15.446" N
P-209	81° 19' 18.113" E	23° 20' 15.407" N
P-210	81° 19' 21.724" E	23° 20' 15.368" N
P-211	81° 19' 25.334" E	23° 20' 15.328" N
P-212	81° 19' 28.944" E	23° 20' 15.289" N
P-213	81° 19' 32.554" E	23° 20' 15.250" N
P-214	81° 19' 36.165" E	23° 20' 15.210" N
P-215	81° 19' 39.703" E	23° 20' 15.151" N
P-216	81° 19' 43.242" E	23° 20' 15.092" N
P-217	81° 19' 46.781" E	23° 20' 15.032" N
P-218	81° 19' 50.320" E	23° 20' 14.973" N
P-219	81° 19' 53.859" E	23° 20' 14.913" N
P-220	81° 19' 57.398" E	23° 20' 14.854" N
P-221	81° 20' 0.937" E	23° 20' 14.794" N
P-222	81° 20' 4.476" E	23° 20' 14.734" N
P-223	81° 20' 8.014" E	23° 20' 14.675" N
P-224	81° 20' 11.553" E	23° 20' 14.615" N
P-225	81° 20' 15.092" E	23° 20' 14.556" N
P-226	81° 20' 18.631" E	23° 20' 14.496" N
P-227	81° 20' 22.170" E	23° 20' 14.436" N
P-228	81° 20' 25.709" E	23° 20' 14.377" N
P-229	81° 20' 29.248" E	23° 20' 14.317" N
P-230	81° 20' 32.786" E	23° 20' 14.257" N
P-231	81° 20' 36.325" E	23° 20' 14.197" N
P-232	81° 20' 39.864" E	23° 20' 14.138" N
P-233	81° 20' 39.204" E	23° 20' 12.261" N
P-234	81° 20' 38.086" E	23° 20' 6.565" N
P-235	81° 20' 39.943" E	23° 20' 3.539" N

Provisional Cardinal Points for WEST OF SHAHDOL Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-236	81° 20' 42.849" E	23° 20' 0.007" N
P-237	81° 20' 44.587" E	23° 19' 58.202" N
P-238	81° 20' 46.162" E	23° 19' 55.084" N
P-239	81° 20' 46.792" E	23° 19' 51.863" N
P-240	81° 20' 47.485" E	23° 19' 45.499" N
P-241	81° 20' 47.929" E	23° 19' 42.100" N
P-242	81° 20' 48.374" E	23° 19' 38.702" N

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 ascertain the exact location of the points.