

ARJUNI COAL BLOCK SUMMARY

PART A

Sr	Features	Details
1.	Location	
	Coal Block	Arjuni
	Latitude	23° 20' 38" N-23° 22' 39" N (Provisional)
	Longitude	81° 14' 6" E-81° 17' 22" E (Provisional)
	Topo Sheet No.	64E/3 & 64E/7(R.F. 1:50,000)
	Coalfield	Sohagpur
	Villages	Arjuni, Dhaurai, Pahariya
	Tehsil/Taluka	Pali
	District	Umaria
	State	Madhya Pradesh
2.	Connectivity with Block	
	Nearest Rail Head	Nearest railway station is Shandol located 14 Km. South-East of the block on Anuppur-Chirimiri broad gauge line of South-Eastern Railway.
	Road	The block is well connected by road and rail. The Shandol-Pali road (NH-78) passes to the south of the block. Besides, there are some forest roads extending through the jungle.
	Airport	
3.	Area	
	Geological Block Area	19.78 sq.km. (As per shape file. Refer Note below)
	Green Cover %	Approx. 58% (As per FSI)
	Non-Forest Area	Approx. 42%
4.	Climate and Topography	
	Average Annual Rainfall	1000mm-1700mm
	Temperature (Min. — Max.)	7°C-46°C
	Local Surface Drainage Channels	The Arjuni Block is marked by dendritic pattern of drainage system. Most of the nalas flow northerly while Baghnura Nala flows easterly.
	Rivers	-
5.	Exploration	
	Status	Partly Explored
	Exploration Agency	MECL, APC

	Total Number of Boreholes with meterage	99 Boreholes, 38444.09m			
	Borehole Density	Approx. 5 Boreholes/sq.km.			
	General Dip of Seams	The coal seams exhibit gentle dip varying from 2° to 5° towards north.			
	General Strike Direction	The strike of the beds in general is NW-SE which swings to east-west in the eastern and western part of the block.			
	Faults	The block is traversed by a total of 3 faults designated as F1-F1 to F3-F3. The faults are of low intensity as the throw ranges from 0.00m to 20.00m.			
6.	Coal Seams & Reserve				
	Coal Seams/Seam Zones	Thickness Range (m)	Depth Range (m)	Geological Reserve (MT)	Grade
	Seam Raniganj	0.34-0.70	13.08-26.50		
	IV	0.05-2.11	180.40-270.50	12.763	G16-G1
	III (Top)	0.30-5.88	229.90-324.47	89.299	G13-G3
	III (Bottom)	0.10-1.66	243.40-340.62	3.392	G12-G3
	II (Top)	0.08-1.49	252.85-355.99	5.708	G13-G3
	II Bot TT	0.83-2.82	305.71-329.58	0.901	G7-G4
	II Bot TB	0.30-0.75	309.56-333.68	0.462	G6
	II Bot T	0.63-5.68	277.06-350.41	19.153	G12-G4
	II Bot BT	0.70-1.90	318.57-340.67	1.306	G11-G5
	II Bot BB	0.79-2.33	321.95-344.15	1.653	G9-G3
	II Bot B	1.49-4.72	287.30-356.90	25.269	G12-G5
	II Bot	0.10-7.56	284.10-363.92	26.061	G11-G5
	IB	0.04-2.00	311.55-407.12	26.906	G16-G2
	IA	0.16-2.00	322.30-415.47	22.8346	G13-G2
	I	0.05-1.15	338.50-427.81	6.2972	G16-G3
	Total			242.0048	
7.	Surface Constraints	NA			
8.	Grade of the block	G7 (Provisional) based on weighted average grade as per data available in Geological Note of Arjuni West and DGR of Arjuni East.			
9.	Decision Support System (DSS) Analysis	The polygon touches Wildlife Habitat(s), Sloth Bear			
10.	Eco Sensitive Zone (ESZ) Analysis	The ESZ boundary of BANDHAV GARH Tiger is approx.11.7 kms from N-W block boundary.Also the tiger corridor between the TRPA of kahna-boramdev is approx. 4.0 kms from S-W block boundary.			

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.

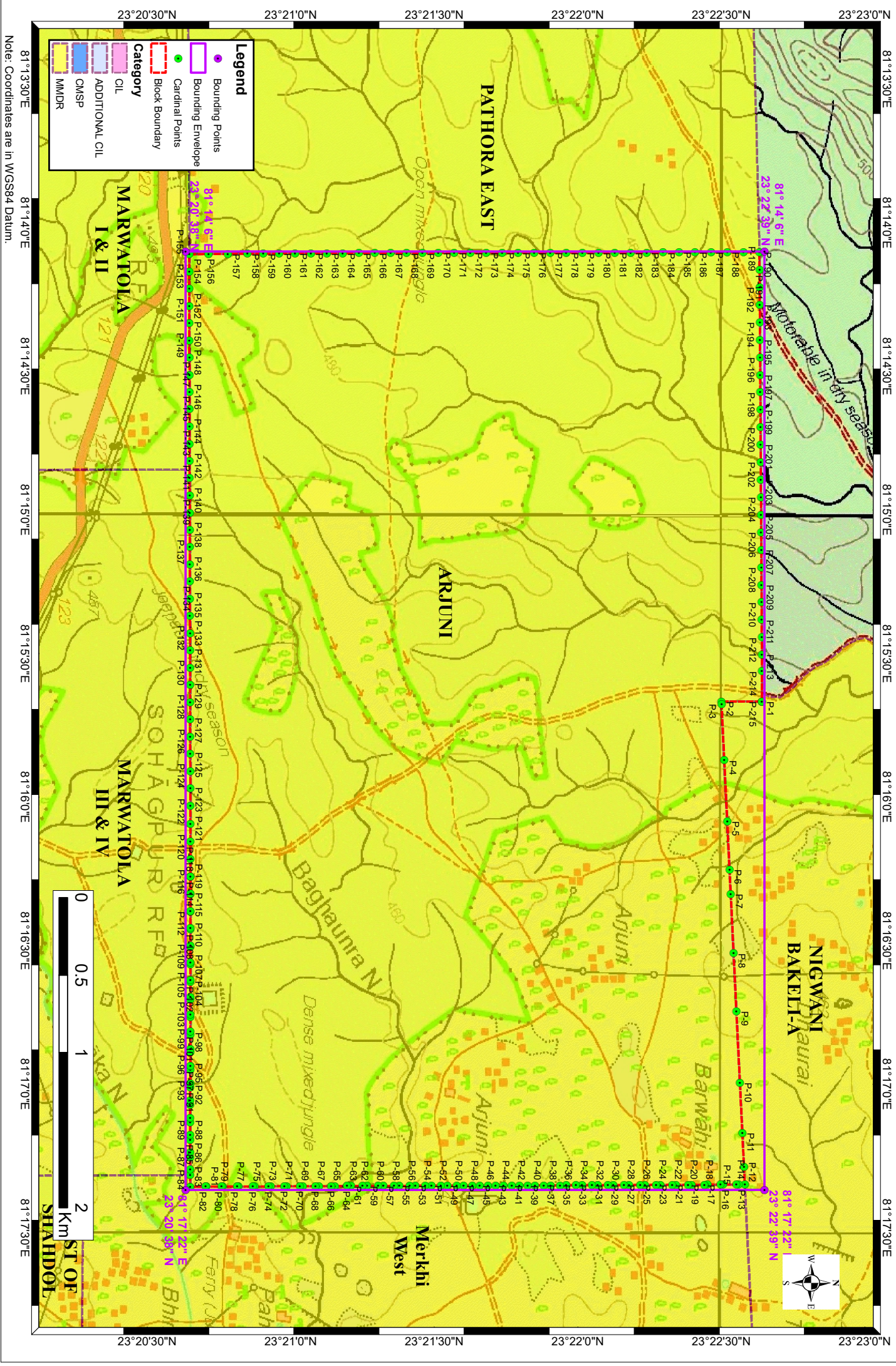
3. There is a difference in area in the shape file and GR. Area in the shape file is based on feature mapped plan of the block as given in the GR. So, the area is tentative and field DGPS survey is required to ascertain the exact area.

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.

Arjuni Block, Sohagpur Coalfield

FOR INTERNAL/RESTRICTED USE ONLY



Note: Coordinates are in WGS84 Datum.

Provisional Cardinal Points for ARJUNI Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-1	81° 15' 40.000" E	23° 22' 38.430" N
P-2	81° 15' 40.000" E	23° 22' 30.004" N
P-3	81° 15' 40.538" E	23° 22' 30.026" N
P-4	81° 15' 52.293" E	23° 22' 30.595" N
P-5	81° 16' 5.000" E	23° 22' 31.210" N
P-6	81° 16' 15.140" E	23° 22' 31.700" N
P-7	81° 16' 20.174" E	23° 22' 31.944" N
P-8	81° 16' 32.575" E	23° 22' 32.544" N
P-9	81° 16' 44.738" E	23° 22' 33.132" N
P-10	81° 16' 59.610" E	23° 22' 33.852" N
P-11	81° 17' 10.135" E	23° 22' 34.361" N
P-12	81° 17' 17.246" E	23° 22' 34.705" N
P-13	81° 17' 20.899" E	23° 22' 34.882" N
P-14	81° 17' 20.904" E	23° 22' 33.603" N
P-15	81° 17' 20.906" E	23° 22' 33.129" N
P-16	81° 17' 20.917" E	23° 22' 30.328" N
P-17	81° 17' 20.919" E	23° 22' 29.775" N
P-18	81° 17' 20.930" E	23° 22' 27.053" N
P-19	81° 17' 20.932" E	23° 22' 26.421" N
P-20	81° 17' 20.943" E	23° 22' 23.777" N
P-21	81° 17' 20.945" E	23° 22' 23.066" N
P-22	81° 17' 20.955" E	23° 22' 20.502" N
P-23	81° 17' 20.958" E	23° 22' 19.712" N
P-24	81° 17' 20.968" E	23° 22' 17.227" N
P-25	81° 17' 20.971" E	23° 22' 16.358" N
P-26	81° 17' 20.981" E	23° 22' 13.951" N
P-27	81° 17' 20.984" E	23° 22' 13.003" N
P-28	81° 17' 20.993" E	23° 22' 10.676" N
P-29	81° 17' 20.997" E	23° 22' 9.649" N
P-30	81° 17' 21.006" E	23° 22' 7.401" N
P-31	81° 17' 21.011" E	23° 22' 6.295" N
P-32	81° 17' 21.019" E	23° 22' 4.125" N
P-33	81° 17' 21.024" E	23° 22' 2.940" N
P-34	81° 17' 21.032" E	23° 22' 0.850" N
P-35	81° 17' 21.037" E	23° 21' 59.586" N
P-36	81° 17' 21.044" E	23° 21' 57.575" N
P-37	81° 17' 21.050" E	23° 21' 56.231" N
P-38	81° 17' 21.057" E	23° 21' 54.299" N
P-39	81° 17' 21.063" E	23° 21' 52.877" N
P-40	81° 17' 21.070" E	23° 21' 51.024" N
P-41	81° 17' 21.076" E	23° 21' 49.523" N
P-42	81° 17' 21.083" E	23° 21' 47.749" N
P-43	81° 17' 21.089" E	23° 21' 46.168" N
P-44	81° 17' 21.095" E	23° 21' 44.473" N
P-45	81° 17' 21.102" E	23° 21' 42.814" N
P-46	81° 17' 21.108" E	23° 21' 41.198" N
P-47	81° 17' 21.115" E	23° 21' 39.460" N

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POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-48	81° 17' 21.121" E	23° 21' 37.923" N
P-49	81° 17' 21.128" E	23° 21' 36.099" N
P-50	81° 17' 21.134" E	23° 21' 34.647" N
P-51	81° 17' 21.141" E	23° 21' 32.738" N
P-52	81° 17' 21.146" E	23° 21' 31.372" N
P-53	81° 17' 21.154" E	23° 21' 29.377" N
P-54	81° 17' 21.159" E	23° 21' 28.097" N
P-55	81° 17' 21.167" E	23° 21' 26.017" N
P-56	81° 17' 21.172" E	23° 21' 24.821" N
P-57	81° 17' 21.180" E	23° 21' 22.656" N
P-58	81° 17' 21.185" E	23° 21' 21.546" N
P-59	81° 17' 21.193" E	23° 21' 19.295" N
P-60	81° 17' 21.197" E	23° 21' 18.270" N
P-61	81° 17' 21.206" E	23° 21' 15.934" N
P-62	81° 17' 21.210" E	23° 21' 14.995" N
P-63	81° 17' 21.219" E	23° 21' 12.574" N
P-64	81° 17' 21.223" E	23° 21' 11.720" N
P-65	81° 17' 21.233" E	23° 21' 9.213" N
P-66	81° 17' 21.236" E	23° 21' 8.444" N
P-67	81° 17' 21.246" E	23° 21' 5.852" N
P-68	81° 17' 21.248" E	23° 21' 5.169" N
P-69	81° 17' 21.259" E	23° 21' 2.491" N
P-70	81° 17' 21.261" E	23° 21' 1.894" N
P-71	81° 17' 21.272" E	23° 20' 59.131" N
P-72	81° 17' 21.274" E	23° 20' 58.618" N
P-73	81° 17' 21.285" E	23° 20' 55.770" N
P-74	81° 17' 21.286" E	23° 20' 55.343" N
P-75	81° 17' 21.298" E	23° 20' 52.409" N
P-76	81° 17' 21.299" E	23° 20' 52.068" N
P-77	81° 17' 21.311" E	23° 20' 49.048" N
P-78	81° 17' 21.312" E	23° 20' 48.792" N
P-79	81° 17' 21.324" E	23° 20' 45.688" N
P-80	81° 17' 21.325" E	23° 20' 45.517" N
P-81	81° 17' 21.337" E	23° 20' 42.327" N
P-82	81° 17' 21.337" E	23° 20' 42.242" N
P-83	81° 17' 21.350" E	23° 20' 38.966" N
P-84	81° 17' 18.938" E	23° 20' 38.968" N
P-85	81° 17' 17.750" E	23° 20' 38.969" N
P-86	81° 17' 15.272" E	23° 20' 38.972" N
P-87	81° 17' 14.151" E	23° 20' 38.973" N
P-88	81° 17' 11.607" E	23° 20' 38.975" N
P-89	81° 17' 10.551" E	23° 20' 38.976" N
P-90	81° 17' 7.941" E	23° 20' 38.978" N
P-91	81° 17' 6.951" E	23° 20' 38.979" N
P-92	81° 17' 4.275" E	23° 20' 38.981" N
P-93	81° 17' 3.351" E	23° 20' 38.982" N
P-94	81° 17' 0.609" E	23° 20' 38.985" N

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POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-95	81° 16' 59.751" E	23° 20' 38.985" N
P-96	81° 16' 56.943" E	23° 20' 38.988" N
P-97	81° 16' 56.151" E	23° 20' 38.988" N
P-98	81° 16' 53.278" E	23° 20' 38.991" N
P-99	81° 16' 52.552" E	23° 20' 38.991" N
P-100	81° 16' 49.612" E	23° 20' 38.994" N
P-101	81° 16' 48.952" E	23° 20' 38.994" N
P-102	81° 16' 45.946" E	23° 20' 38.997" N
P-103	81° 16' 45.352" E	23° 20' 38.998" N
P-104	81° 16' 42.280" E	23° 20' 39.000" N
P-105	81° 16' 41.752" E	23° 20' 39.001" N
P-106	81° 16' 38.614" E	23° 20' 39.003" N
P-107	81° 16' 38.152" E	23° 20' 39.004" N
P-108	81° 16' 34.948" E	23° 20' 39.006" N
P-109	81° 16' 34.552" E	23° 20' 39.006" N
P-110	81° 16' 31.283" E	23° 20' 39.009" N
P-111	81° 16' 30.953" E	23° 20' 39.009" N
P-112	81° 16' 27.617" E	23° 20' 39.012" N
P-113	81° 16' 27.353" E	23° 20' 39.012" N
P-114	81° 16' 23.951" E	23° 20' 39.015" N
P-115	81° 16' 23.753" E	23° 20' 39.015" N
P-116	81° 16' 20.285" E	23° 20' 39.018" N
P-117	81° 16' 20.153" E	23° 20' 39.018" N
P-118	81° 16' 16.619" E	23° 20' 39.021" N
P-119	81° 16' 16.553" E	23° 20' 39.021" N
P-120	81° 16' 12.953" E	23° 20' 39.024" N
P-121	81° 16' 9.249" E	23° 20' 39.017" N
P-122	81° 16' 5.544" E	23° 20' 39.010" N
P-123	81° 16' 1.840" E	23° 20' 39.002" N
P-124	81° 15' 58.135" E	23° 20' 38.995" N
P-125	81° 15' 54.537" E	23° 20' 38.988" N
P-126	81° 15' 50.939" E	23° 20' 38.981" N
P-127	81° 15' 47.341" E	23° 20' 38.974" N
P-128	81° 15' 43.743" E	23° 20' 38.966" N
P-129	81° 15' 40.145" E	23° 20' 38.959" N
P-130	81° 15' 36.547" E	23° 20' 38.952" N
P-131	81° 15' 32.948" E	23° 20' 38.944" N
P-132	81° 15' 29.350" E	23° 20' 38.937" N
P-133	81° 15' 25.752" E	23° 20' 38.930" N
P-134	81° 15' 22.154" E	23° 20' 38.922" N
P-135	81° 15' 18.556" E	23° 20' 38.915" N
P-136	81° 15' 14.958" E	23° 20' 38.907" N
P-137	81° 15' 11.360" E	23° 20' 38.900" N
P-138	81° 15' 7.761" E	23° 20' 38.892" N
P-139	81° 15' 4.163" E	23° 20' 38.885" N
P-140	81° 15' 0.565" E	23° 20' 38.877" N
P-141	81° 14' 56.967" E	23° 20' 38.870" N

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POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-142	81° 14' 53.369" E	23° 20' 38.862" N
P-143	81° 14' 49.771" E	23° 20' 38.854" N
P-144	81° 14' 46.173" E	23° 20' 38.847" N
P-145	81° 14' 42.575" E	23° 20' 38.839" N
P-146	81° 14' 38.976" E	23° 20' 38.831" N
P-147	81° 14' 35.378" E	23° 20' 38.824" N
P-148	81° 14' 31.780" E	23° 20' 38.816" N
P-149	81° 14' 28.182" E	23° 20' 38.808" N
P-150	81° 14' 24.584" E	23° 20' 38.801" N
P-151	81° 14' 20.986" E	23° 20' 38.793" N
P-152	81° 14' 17.388" E	23° 20' 38.785" N
P-153	81° 14' 13.790" E	23° 20' 38.777" N
P-154	81° 14' 10.191" E	23° 20' 38.769" N
P-155	81° 14' 6.593" E	23° 20' 38.761" N
P-156	81° 14' 6.550" E	23° 20' 42.808" N
P-157	81° 14' 6.506" E	23° 20' 46.854" N
P-158	81° 14' 6.462" E	23° 20' 50.900" N
P-159	81° 14' 6.449" E	23° 20' 54.228" N
P-160	81° 14' 6.437" E	23° 20' 57.557" N
P-161	81° 14' 6.424" E	23° 21' 0.886" N
P-162	81° 14' 6.412" E	23° 21' 4.214" N
P-163	81° 14' 6.399" E	23° 21' 7.543" N
P-164	81° 14' 6.386" E	23° 21' 10.871" N
P-165	81° 14' 6.374" E	23° 21' 14.200" N
P-166	81° 14' 6.361" E	23° 21' 17.528" N
P-167	81° 14' 6.349" E	23° 21' 20.857" N
P-168	81° 14' 6.336" E	23° 21' 24.185" N
P-169	81° 14' 6.323" E	23° 21' 27.514" N
P-170	81° 14' 6.311" E	23° 21' 30.843" N
P-171	81° 14' 6.298" E	23° 21' 34.171" N
P-172	81° 14' 6.285" E	23° 21' 37.500" N
P-173	81° 14' 6.273" E	23° 21' 40.828" N
P-174	81° 14' 6.260" E	23° 21' 44.157" N
P-175	81° 14' 6.248" E	23° 21' 47.485" N
P-176	81° 14' 6.243" E	23° 21' 50.849" N
P-177	81° 14' 6.238" E	23° 21' 54.213" N
P-178	81° 14' 6.233" E	23° 21' 57.577" N
P-179	81° 14' 6.228" E	23° 22' 0.941" N
P-180	81° 14' 6.223" E	23° 22' 4.305" N
P-181	81° 14' 6.218" E	23° 22' 7.668" N
P-182	81° 14' 6.213" E	23° 22' 11.032" N
P-183	81° 14' 6.209" E	23° 22' 14.396" N
P-184	81° 14' 6.204" E	23° 22' 17.760" N
P-185	81° 14' 6.199" E	23° 22' 21.124" N
P-186	81° 14' 6.194" E	23° 22' 24.488" N
P-187	81° 14' 6.189" E	23° 22' 27.851" N
P-188	81° 14' 6.184" E	23° 22' 31.215" N

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POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-189	81° 14' 6.179" E	23° 22' 34.579" N
P-190	81° 14' 6.174" E	23° 22' 37.943" N
P-191	81° 14' 9.830" E	23° 22' 37.965" N
P-192	81° 14' 13.485" E	23° 22' 37.988" N
P-193	81° 14' 17.140" E	23° 22' 38.010" N
P-194	81° 14' 20.795" E	23° 22' 38.033" N
P-195	81° 14' 24.450" E	23° 22' 38.056" N
P-196	81° 14' 28.106" E	23° 22' 38.078" N
P-197	81° 14' 31.761" E	23° 22' 38.100" N
P-198	81° 14' 35.416" E	23° 22' 38.123" N
P-199	81° 14' 39.071" E	23° 22' 38.145" N
P-200	81° 14' 42.726" E	23° 22' 38.168" N
P-201	81° 14' 46.382" E	23° 22' 38.190" N
P-202	81° 14' 50.037" E	23° 22' 38.212" N
P-203	81° 14' 53.692" E	23° 22' 38.235" N
P-204	81° 14' 57.347" E	23° 22' 38.257" N
P-205	81° 15' 1.002" E	23° 22' 38.279" N
P-206	81° 15' 4.658" E	23° 22' 38.301" N
P-207	81° 15' 8.313" E	23° 22' 38.324" N
P-208	81° 15' 11.968" E	23° 22' 38.346" N
P-209	81° 15' 15.623" E	23° 22' 38.368" N
P-210	81° 15' 19.278" E	23° 22' 38.390" N
P-211	81° 15' 22.934" E	23° 22' 38.412" N
P-212	81° 15' 26.589" E	23° 22' 38.434" N
P-213	81° 15' 30.244" E	23° 22' 38.456" N
P-214	81° 15' 33.670" E	23° 22' 38.477" N