JHARPALAM TANGARGHAT COAL BLOCK SUMMARY

Sr. No	Features	Details
1.	**Location**	
	Coal Block	**JHARPALAM TANGARGHAT**
	Latitude	22° 02' 55" N to 22° 05' 47" N (Provisional in WGS84 from shapefile)
	Longitude	83° 33' 45" E to 83° 36' 24" E (Provisional in WGS84 from shapefile)
	Topo Sheet No.	64 N/12
	Coalfield	Mand Raigarh
	Villages	Tangarghat, Dumarghucha, Ourajor, Karrapalli, Kesarchuan
	District	Raigarh
	State	Chhattisgarh
2.	**Connectivity with Block**	
	Nearest Rail Head	Raigarh Railway Station on Howrah-Bombay Mainline is located about 40 km. from this area.
	Road	Block is well connected with Raigarh and Ambikapur by a State Highway. The present area of investigation is connected to Tamnar town with about 100ft wide road constructed by mining companies active in the neighbouring Gare block and by an all-weather morum road to Jamkani, a village-market in Orissa state.
3.	**Area**	
	Geological Block Area	13.25 sq.km. (As per shape file) (Refer Notes)
	Forest Area	1 % (As per FSI map)
	Non-Forest Area	99 % (As per FSI map)
4.	**Topography & Drainage**	
	Local Surface Drainage Channels	The unnamed tributary nalas of 2nd and 3rd order of Kelo River which is flowing about 8-10 km. west and south-west of the area form main drainage system flowing mostly north-east to south-west and east to west direction.
5.	**Exploration**	
	Status	Regionally Explored (Detail Drilling Exploration Completed-GR under preparation)
	Exploration Agency	GSI
	Total Number of Boreholes with meterage	94 Boreholes; 45662.2m (GSI-5 Boreholes; 2416.20 m (Jharpalam Tangarghat-2 BHs; 1039.8m & Kesarchuan Lamdand-3 BHs; 1376.4m); MECL: 89 Boreholes; 43246.00m
	Borehole Density	Approx. 7 Boreholes/sq.km.

	General Dip of Seams	Dipping at very low (3° to 5°) angle, towards SW to SE.			
	General Strike Direction	The strike of the beds, in general, varies from NW-SE to NE-SW			
	Faults	2 minor faults having throw of about 15m. as per regional GR.			
6.	**Coal Seams & Reserve**				
	Number of Coal Seams	Thickness Range (m)	Depth Range (m)	Geological Reserve (MT)	Grade
Jharpalam Tangarghat Block-Regional Exploration report by GSI					
	X	1.55-15.70	75.50-265.10		E-F
	IX L2	0.7-1.75	109.00-285.40		C-E
	IX L1	0.55-1.20	131.00-291.00		C-F
	IX	7.35-12.25	123.05-307.20		C-F
	VI & VII	5.26-24.55	151.60-366.20		C-G
	IV	0.65-5.60	235.6-434.90		D-F
	III	0.96-10.40	307.00-496.40		C-G
	II	5.3-6.00	453.85-470.75		B-G
Kesarchuan Lamdand Block- Regional Exploration report by GSI					
	X	1.38-4.45	111.48-277.49		D-F
	IX L2	0.79-1.65	143.93-313.43		D-F
	IX L1	0.60-1.25	151.30-319.93		E-F
	IX	4.58-11.25	159.72-335.96		B-G
	VIII	2.29	354.24		G
	VI & VII	0.61-11.84	189.14-368.53		D-G
	V	0.59-2.14	367.75-420.50		E-G
	IVl2	0.54-0.56	248.12-314.95		E-G
	IVl1	0.61	263.69		E
	IV	0.32-4.22	272.44-466.54		C-G
	III L2	0.56-1.15	297.27-492.15		E-G
	III L1	0.61	397.99		G
	III	0.52-3.05	361.81-483.46		B-E
	II	6.06-9.50	414.39-495.13		B-E
	Total			**500 (Approximate-Likely to change after final GR)**	
7.	**Surface Constraints**	Proposed Rail alignment in the North Western part of the Block			
8.	**Grade of the block**	As per the regional exploration reports tentative weighted average grade is G11. Likely to change after final GR.			

Note:

1. The mine summary data is compiled from part data of Final Report on The Regional Exploration for Coal in Jharpalam-Tangarghat Block, Mand-Raigarh Coalfield, Raigarh District, Chhattisgarh, GSI-2004 and Final Report on Regional Exploration for Coal in Kesarchuan - Lamdand Block, Mand - Raigarh Coalfield, Raigarh District, Chhattisgarh, GSI-2010.
2. Sl.No.-6 (Coal Seams & Reserves) of above table is compiled from both the above-mentioned regional geological reports.
3. Present drilling data is included in Exploration Status.
4. The block boundary is provisional and the cardinal points, bounding co-ordinates are approximate.

Jharpalam Tangarghat Block, Mand Raigarh Coalfield

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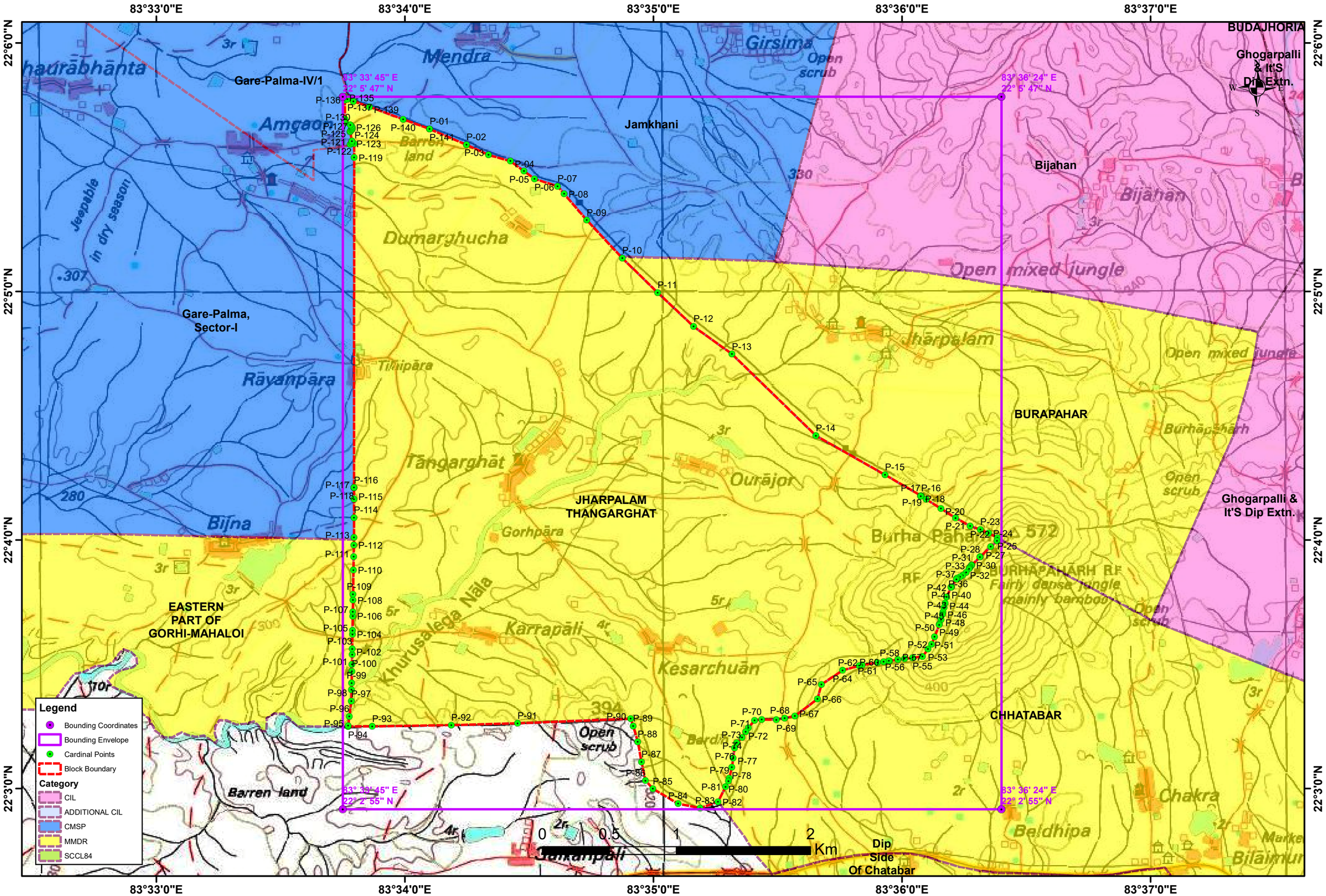

Note: The map is prepared on WGS84 coordinate system.

Provisional Cardinal Points of Jharpalam Thangarghat Block		
POINT_ID	LONGITUDE	LATITUDE
P-01	83° 34' 5.968" E	22° 5' 39.235" N
P-02	83° 34' 14.876" E	22° 5' 35.410" N
P-03	83° 34' 20.190" E	22° 5' 32.970" N
P-04	83° 34' 25.475" E	22° 5' 31.471" N
P-05	83° 34' 28.756" E	22° 5' 29.059" N
P-06	83° 34' 31.285" E	22° 5' 27.177" N
P-07	83° 34' 36.851" E	22° 5' 25.381" N
P-08	83° 34' 38.445" E	22° 5' 23.574" N
P-09	83° 34' 43.901" E	22° 5' 17.211" N
P-10	83° 34' 52.493" E	22° 5' 8.034" N
P-11	83° 35' 1.012" E	22° 4' 59.728" N
P-12	83° 35' 9.692" E	22° 4' 51.554" N
P-13	83° 35' 18.975" E	22° 4' 44.860" N
P-14	83° 35' 39.220" E	22° 4' 25.183" N
P-15	83° 35' 55.900" E	22° 4' 15.731" N
P-16	83° 36' 4.668" E	22° 4' 10.655" N
P-17	83° 36' 4.475" E	22° 4' 10.658" N
P-18	83° 36' 4.583" E	22° 4' 10.592" N
P-19	83° 36' 5.862" E	22° 4' 9.806" N
P-20	83° 36' 9.391" E	22° 4' 7.571" N
P-21	83° 36' 12.919" E	22° 4' 5.337" N
P-22	83° 36' 16.479" E	22° 4' 3.359" N
P-23	83° 36' 18.944" E	22° 4' 2.496" N
P-24	83° 36' 20.932" E	22° 4' 1.661" N
P-25	83° 36' 23.035" E	22° 4' 0.501" N
P-26	83° 36' 22.945" E	22° 3' 59.740" N
P-27	83° 36' 21.428" E	22° 3' 58.353" N
P-28	83° 36' 18.866" E	22° 3' 55.956" N
P-29	83° 36' 18.802" E	22° 3' 55.896" N
P-30	83° 36' 16.837" E	22° 3' 53.927" N
P-31	83° 36' 16.784" E	22° 3' 53.873" N
P-32	83° 36' 16.455" E	22° 3' 53.427" N
P-33	83° 36' 16.287" E	22° 3' 53.198" N
P-34	83° 36' 16.193" E	22° 3' 53.062" N
P-35	83° 36' 15.530" E	22° 3' 52.139" N
P-36	83° 36' 14.730" E	22° 3' 51.481" N
P-37	83° 36' 14.040" E	22° 3' 51.130" N
P-38	83° 36' 13.296" E	22° 3' 50.750" N
P-39	83° 36' 13.161" E	22° 3' 50.535" N
P-40	83° 36' 11.989" E	22° 3' 48.649" N
P-41	83° 36' 11.844" E	22° 3' 48.635" N
P-42	83° 36' 11.824" E	22° 3' 48.592" N
P-43	83° 36' 10.795" E	22° 3' 46.269" N
P-44	83° 36' 10.434" E	22° 3' 44.783" N
P-45	83° 36' 10.170" E	22° 3' 43.695" N
P-46	83° 36' 9.902" E	22° 3' 42.593" N
P-47	83° 36' 9.768" E	22° 3' 42.041" N

Provisional Cardinal Points of Jharpalam Thangarghat Block		
POINT_ID	LONGITUDE	LATITUDE
P-48	83° 36' 9.451" E	22° 3' 40.735" N
P-49	83° 36' 9.036" E	22° 3' 39.657" N
P-50	83° 36' 8.985" E	22° 3' 39.525" N
P-51	83° 36' 7.865" E	22° 3' 36.616" N
P-52	83° 36' 7.189" E	22° 3' 34.858" N
P-53	83° 36' 6.281" E	22° 3' 33.649" N
P-54	83° 36' 4.945" E	22° 3' 31.868" N
P-55	83° 36' 2.568" E	22° 3' 31.558" N
P-56	83° 36' 0.652" E	22° 3' 31.308" N
P-57	83° 35' 59.007" E	22° 3' 31.094" N
P-58	83° 35' 57.009" E	22° 3' 30.833" N
P-59	83° 35' 56.806" E	22° 3' 30.807" N
P-60	83° 35' 55.558" E	22° 3' 30.614" N
P-61	83° 35' 54.073" E	22° 3' 30.384" N
P-62	83° 35' 50.405" E	22° 3' 29.818" N
P-63	83° 35' 49.677" E	22° 3' 29.623" N
P-64	83° 35' 45.666" E	22° 3' 28.548" N
P-65	83° 35' 40.569" E	22° 3' 25.128" N
P-66	83° 35' 39.620" E	22° 3' 21.635" N
P-67	83° 35' 34.174" E	22° 3' 17.503" N
P-68	83° 35' 31.700" E	22° 3' 17.003" N
P-69	83° 35' 29.674" E	22° 3' 16.594" N
P-70	83° 35' 26.133" E	22° 3' 16.650" N
P-71	83° 35' 24.414" E	22° 3' 16.471" N
P-72	83° 35' 22.886" E	22° 3' 14.638" N
P-73	83° 35' 22.300" E	22° 3' 13.729" N
P-74	83° 35' 21.405" E	22° 3' 12.339" N
P-75	83° 35' 20.108" E	22° 3' 11.018" N
P-76	83° 35' 19.588" E	22° 3' 9.788" N
P-77	83° 35' 19.258" E	22° 3' 7.371" N
P-78	83° 35' 18.949" E	22° 3' 5.103" N
P-79	83° 35' 18.290" E	22° 3' 2.508" N
P-80	83° 35' 18.114" E	22° 3' 1.815" N
P-81	83° 35' 17.421" E	22° 3' 0.438" N
P-82	83° 35' 15.588" E	22° 2' 56.798" N
P-83	83° 35' 11.298" E	22° 2' 55.267" N
P-84	83° 35' 5.949" E	22° 2' 56.332" N
P-85	83° 34' 59.871" E	22° 2' 59.936" N
P-86	83° 34' 58.081" E	22° 3' 1.925" N
P-87	83° 34' 57.111" E	22° 3' 6.429" N
P-88	83° 34' 56.203" E	22° 3' 11.293" N
P-89	83° 34' 55.110" E	22° 3' 15.077" N
P-90	83° 34' 54.522" E	22° 3' 16.832" N
P-91	83° 34' 27.181" E	22° 3' 15.735" N
P-92	83° 34' 11.214" E	22° 3' 15.298" N
P-93	83° 33' 52.114" E	22° 3' 14.996" N
P-94	83° 33' 46.287" E	22° 3' 14.988" N

Provisional Cardinal Points of Jharpalam Thangarghat Block		
POINT_ID	LONGITUDE	LATITUDE
P-95	83° 33' 46.305" E	22° 3' 15.133" N
P-96	83° 33' 46.602" E	22° 3' 17.382" N
P-97	83° 33' 47.081" E	22° 3' 21.060" N
P-98	83° 33' 47.125" E	22° 3' 23.830" N
P-99	83° 33' 47.153" E	22° 3' 25.503" N
P-100	83° 33' 47.197" E	22° 3' 28.264" N
P-101	83° 33' 47.225" E	22° 3' 30.005" N
P-102	83° 33' 47.264" E	22° 3' 32.356" N
P-103	83° 33' 47.286" E	22° 3' 33.706" N
P-104	83° 33' 47.342" E	22° 3' 37.180" N
P-105	83° 33' 47.358" E	22° 3' 38.153" N
P-106	83° 33' 47.414" E	22° 3' 41.614" N
P-107	83° 33' 47.430" E	22° 3' 42.629" N
P-108	83° 33' 47.477" E	22° 3' 45.504" N
P-109	83° 33' 47.499" E	22° 3' 46.891" N
P-110	83° 33' 47.594" E	22° 3' 52.754" N
P-111	83° 33' 47.647" E	22° 3' 55.966" N
P-112	83° 33' 47.692" E	22° 3' 58.768" N
P-113	83° 33' 47.714" E	22° 4' 0.630" N
P-114	83° 33' 47.716" E	22° 4' 5.384" N
P-115	83° 33' 47.717" E	22° 4' 9.876" N
P-116	83° 33' 47.719" E	22° 4' 12.622" N
P-117	83° 33' 47.719" E	22° 4' 12.687" N
P-118	83° 33' 47.718" E	22° 4' 12.687" N
P-119	83° 33' 47.750" E	22° 5' 32.361" N
P-120	83° 33' 47.752" E	22° 5' 35.681" N
P-121	83° 33' 46.808" E	22° 5' 35.505" N
P-122	83° 33' 47.150" E	22° 5' 35.827" N
P-123	83° 33' 47.221" E	22° 5' 36.331" N
P-124	83° 33' 46.785" E	22° 5' 38.515" N
P-125	83° 33' 46.827" E	22° 5' 38.740" N
P-126	83° 33' 47.148" E	22° 5' 39.003" N
P-127	83° 33' 47.322" E	22° 5' 39.262" N
P-128	83° 33' 47.310" E	22° 5' 39.552" N
P-129	83° 33' 47.184" E	22° 5' 39.850" N
P-130	83° 33' 46.840" E	22° 5' 40.212" N
P-131	83° 33' 45.633" E	22° 5' 40.808" N
P-132	83° 33' 45.465" E	22° 5' 41.061" N
P-133	83° 33' 45.489" E	22° 5' 41.201" N
P-134	83° 33' 45.552" E	22° 5' 41.597" N
P-135	83° 33' 45.492" E	22° 5' 46.172" N
P-136	83° 33' 45.550" E	22° 5' 46.903" N
P-137	83° 33' 46.146" E	22° 5' 46.387" N
P-138	83° 33' 47.569" E	22° 5' 45.898" N
P-139	83° 33' 51.452" E	22° 5' 44.580" N
P-140	83° 33' 59.603" E	22° 5' 41.549" N
P-141	83° 34' 5.968" E	22° 5' 39.235" N