

KARTALA COAL BLOCK SUMMARY

PART A

Sr. No	Features	Details
1.	Location	
	Coal Block	Kartala
	Latitude	22° 14' 23" N - 22° 18' 15" N (Provisional)
	Longitude	82° 56' 25" E - 82° 59' 13" E (Provisional)
	Topo Sheet No.	64 J/15
	Coalfield	Mand Raigarh
	Villages	Kartala, Taraf Majali, Geraon, Timanbhauna
	Tehsil/Taluka	Kartala
	District	Korba
	State	Chhattisgarh
2.	Connectivity with Block	
	Nearest Rail Head	The nearest railhead is Korba in Chhattisgarh is about 35 kms west of the block situated on Champa-Gevra branch line of South Eastern Railway.
	Road	The Block is situated about 35 Kms. South-east of Korba town. It is connected by a single way (metalled) Forest road up to Karkoma village and further extended by a fair weathered forest road negotiating a number of seasonal and perennial nalas.
	Airport	-
3.	Area	
	Geological Block Area	21.3 sq.km. (As per shape file; Refer Note below)
	Forest Area	Approx. 40 % (As per FSI plan)
	Non-Forest Area	Approx. 60 % (As per FSI plan)
4.	Climate and Topography	
	Average Annual Rainfall	-
	Temperature (Min. — Max.)	-
	Local Surface Drainage Channels	The geomorphology of the block is characterized largely by vast plains and broad valleys formed by sub dendritic drainage pattern of Kortimasara nala flowing from north-western part to eastern boundary of the block. The drainage pattern is mainly controlled by one major tributary of Basundhara nala i.e., Garia nala which flows southerly and south-easterly almost in the southern extremity of the block. A network of streamlets feed the Garia nala.
	Rivers	
5.	Exploration	
	Status	Under Regional Exploration (G2)
	Exploration Agency	MECL

Total Number of Boreholes with meterage	39 Boreholes; 26168.80 m (As on 31 st October, 2021)
Borehole Density	Approx. 1.8 Boreholes/sq.km.
General Dip of Seams	Gentle easterly to south-easterly dip (4°-8°).
General Strike Direction	The general trend of the beds strike N-S and at places swerving up to N52°W-S52°E direction.
Faults	A total of 3 faults have been deciphered based on interpretation of differences in the Floor level of boreholes noticed on the either side of the Fault plain. The throw of the Faults ranges from 5m to 180m in westerly to south-westerly direction.

6. Coal Seams & Reserve

Coal Seams	Thickness Range (m)	Depth Range (m)	Geological Reserve (MT)	Grade
Seam – XXI	0.33-0.89	73.00-80.24		
Seam - XX	0.38-1.26	43.88-132.73		G12-G17
Seam – XIX	0.10-3.12	52.74-161.95		G12-G16
Seam – XVIII	0.14-1.34	43.09-247.25		G12-G16
Seam – XVII	0.11-1.86	37.89-285.01		G13
Seam – XVI	0.10-3.22	104.50-308.40		G11-G17
Seam – XV	0.13-3.12	138.11-327.47		G9-G15
Seam – XIV	0.40-7.06	172.25-351.25		G8-G16
Seam – XIII	0.26-5.45	182.05-362.20		G9-G13
Seam – XII (T)	0.50-6.48	223.50-296.10		G9-G14
Seam – XII (B)	0.55-6.63	225.95-301.87		G8-G12
Seam – XII (COMB)	0.15-6.96	189.89-388.05		G8-G17
Seam – XI	0.10-5.59	205.20-409.88		G9-G14
Seam – X (T)	0.65-3.82	261.95-420.80		G9-G14
Seam – X (M)	1.22-1.22	372.12-372.12		G9
Seam – X (B)	0.54-5.75	272.25-425.96		G8-G15
Seam – X (M+B)	4.36-7.24	300.00-378.42		G10-G12
Seam – X (COMB)	0.80-8.91	227.31-431.85		G9-G17
Seam – IX A	0.21-3.53	244.45-452.76		G8-G16
Seam – IX (T)	0.50-9.96	263.35-470.27		G9-G13
Seam – IX (M)	3.56-4.52	416.50-475.48		G10-G11
Seam – IX (B)	0.50-7.39	266.60-478.50		G9-G15
Seam – IX (COMB)	2.5-16.14	280.17-453.45		G9-G15
Seam – VIII (T)	0.52-2.81	314.10-456.30		G9-G16
Seam – VIII (B)	0.34-6.14	294.58-463.59		G7-G17
Seam – VIII (COMB)	0.10-7.36	290.10-494.35		G11-G17
Seam – VII (T)	0.15-5.32	345.72-512.40		G7-G16
Seam – VII (M)	0.17-1.25	379.24-412.90		G13-G15
Seam – VII (B)	0.12-2.43	356.39-515.73		G9-G17
Seam – VII (COMB)	0.10-5.11	299.10-480.81		G13-G16
Seam – VI (T)	0.12-3.05	365.08-542.10		G12-G17
Seam – VI (B)	0.15-4.4	352.42-542.52		G12-G14
Seam – VI (COMB)	0.08-4.79	340.81-516.65		G9-G17
Seam – V	0.18-2.76	442.90-633.38		G9-G17
Seam – IV (T)	0.20-1.39	478.70-673.79		G10-G17
Seam – IV (B)	0.20-1.25	479.80-675.02		G13-G16
Seam – IV (COMB)	0.10-1.65	482.97-671.83		G12-G17

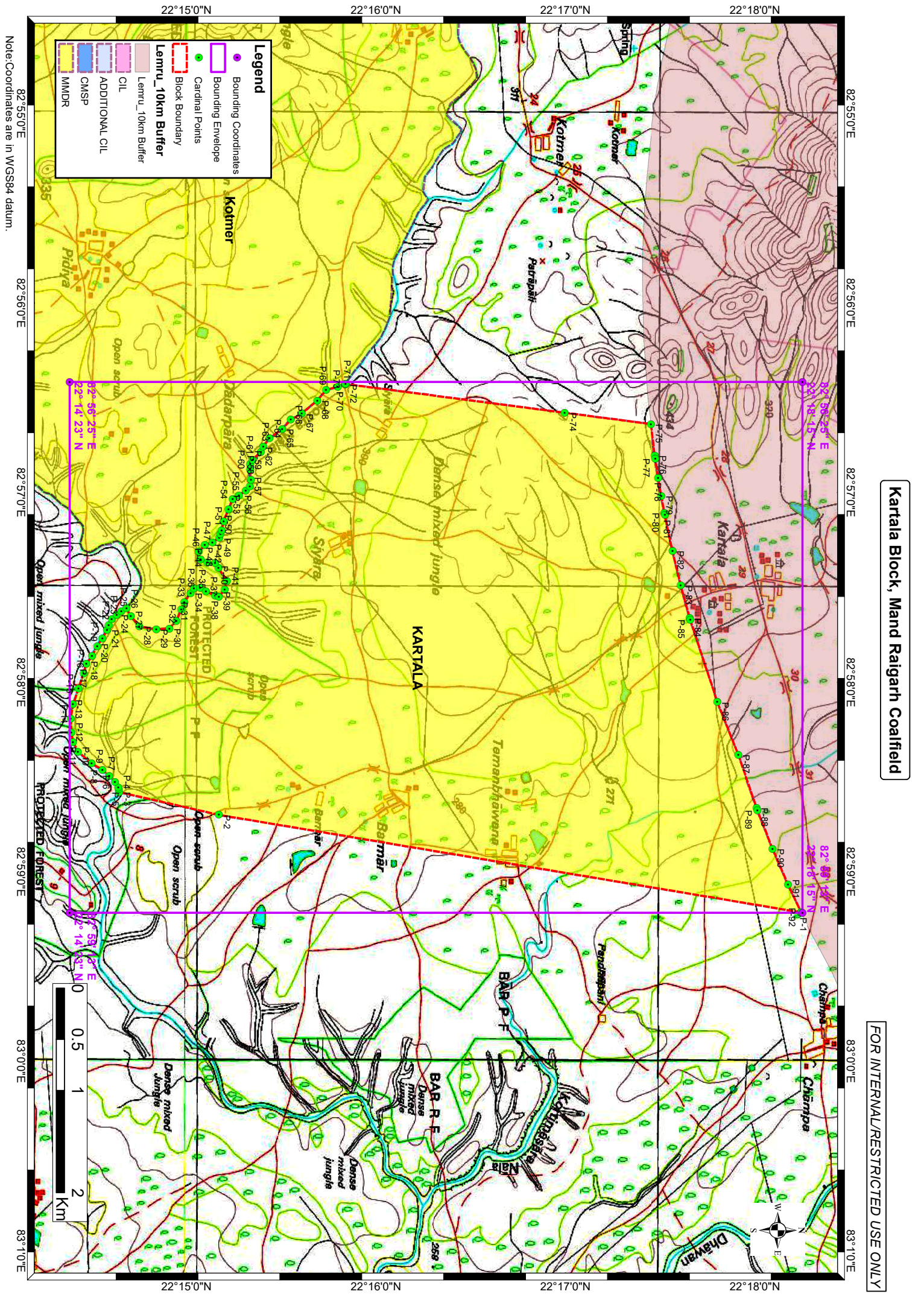
	Seam – III (T)	0.50-5.51	535.70-734.11		G1-G16
	Seam – III (M)	0.34-1.79	545.00-622.25		G6-G17
	Seam – III (B)	0.59-6.29	542.68-741.50		G7-G14
	Seam – III (COMB)	4.11-9.50	567.10-712.10		G10-G17
	Seam – II A	2.22-3.14	697.99-720.14		G7-G10
	L – 4	1.80-2.10	645.80-735.35		G7-10
	L – 3	1.03-1.03	671.53-671.53		G10
	Local	0.10-1.40	28.99-611.00		G11-G16
		Total		1050.00 (Tentative)	
7.	Surface Constraints	NA			
8.	Grade of the block	G12 (Provisional) based on weighted average grade as per grade-wise data available in regional GR.			
9.	Decision Support System (DSS) Analysis	Wildlife Info: Polygon touches wildlife habitat of Sloth Bear.			
10.	Eco Sensitive Zone (ESZ) Analysis	Northern boundary touches the boundary of buffer zone of unnotified Lemru Elephant Reserve.			

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. Above summary has been compiled from “Geological Report on Regional Exploration for Coal in Kartala Block (Under Promotional Programme), Trans-Mand Sector, Mand Raigarh Coalfield, District: Korba, Chhattisgarh. July-2018” by MECL. The block boundary has been revised afterwards to remove the area falling within the 10km buffer zone of Lemru un-notified elephant corridor in the northern part. Resources are estimated for the revised block.

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.



Kartala Block, Mand Raigarh Coalfield

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Note: Coordinates are in WGS84 datum.

Provisional Cardinal Points for KARTALA Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-1	82° 59' 12.852" E	22° 18' 14.568" N
P-2	82° 58' 41.999" E	22° 15' 10.238" N
P-3	82° 58' 34.773" E	22° 14' 38.625" N
P-4	82° 58' 33.899" E	22° 14' 38.583" N
P-5	82° 58' 33.313" E	22° 14' 38.406" N
P-6	82° 58' 31.689" E	22° 14' 37.323" N
P-7	82° 58' 29.565" E	22° 14' 35.542" N
P-8	82° 58' 27.783" E	22° 14' 33.417" N
P-9	82° 58' 25.658" E	22° 14' 29.922" N
P-10	82° 58' 21.958" E	22° 14' 25.605" N
P-11	82° 58' 18.943" E	22° 14' 24.097" N
P-12	82° 58' 15.859" E	22° 14' 23.549" N
P-13	82° 58' 11.542" E	22° 14' 23.343" N
P-14	82° 58' 7.019" E	22° 14' 24.097" N
P-15	82° 58' 1.948" E	22° 14' 25.811" N
P-16	82° 57' 57.151" E	22° 14' 27.387" N
P-17	82° 57' 54.204" E	22° 14' 28.278" N
P-18	82° 57' 51.737" E	22° 14' 30.128" N
P-19	82° 57' 48.653" E	22° 14' 31.704" N
P-20	82° 57' 46.186" E	22° 14' 33.349" N
P-21	82° 57' 43.445" E	22° 14' 34.856" N
P-22	82° 57' 41.869" E	22° 14' 35.404" N
P-23	82° 57' 40.087" E	22° 14' 36.364" N
P-24	82° 57' 38.679" E	22° 14' 37.846" N
P-25	82° 57' 37.700" E	22° 14' 39.379" N
P-26	82° 57' 36.652" E	22° 14' 40.964" N
P-27	82° 57' 39.051" E	22° 14' 42.334" N
P-28	82° 57' 42.306" E	22° 14' 45.075" N
P-29	82° 57' 43.248" E	22° 14' 50.386" N
P-30	82° 57' 42.991" E	22° 14' 54.584" N
P-31	82° 57' 40.593" E	22° 14' 56.811" N
P-32	82° 57' 36.939" E	22° 14' 58.324" N
P-33	82° 57' 34.596" E	22° 14' 59.295" N
P-34	82° 57' 31.840" E	22° 15' 1.280" N
P-35	82° 57' 30.313" E	22° 15' 2.379" N
P-36	82° 57' 30.056" E	22° 15' 4.349" N
P-37	82° 57' 31.175" E	22° 15' 6.114" N
P-38	82° 57' 32.633" E	22° 15' 9.042" N
P-39	82° 57' 32.969" E	22° 15' 10.174" N
P-40	82° 57' 30.742" E	22° 15' 12.144" N
P-41	82° 57' 28.000" E	22° 15' 12.829" N
P-42	82° 57' 23.828" E	22° 15' 10.138" N
P-43	82° 57' 22.347" E	22° 15' 8.975" N
P-44	82° 57' 22.175" E	22° 15' 6.576" N
P-45	82° 57' 21.062" E	22° 15' 4.520" N
P-46	82° 57' 18.749" E	22° 15' 3.921" N
P-47	82° 57' 16.608" E	22° 15' 5.805" N

Provisional Cardinal Points for KARTALA Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-48	82° 57' 15.751" E	22° 15' 8.204" N
P-49	82° 57' 14.295" E	22° 15' 10.345" N
P-50	82° 57' 13.183" E	22° 15' 10.734" N
P-51	82° 57' 11.997" E	22° 15' 11.148" N
P-52	82° 57' 9.087" E	22° 15' 11.768" N
P-53	82° 57' 5.249" E	22° 15' 13.276" N
P-54	82° 57' 2.028" E	22° 15' 14.646" N
P-55	82° 57' 0.932" E	22° 15' 16.565" N
P-56	82° 56' 59.287" E	22° 15' 18.758" N
P-57	82° 56' 58.053" E	22° 15' 20.060" N
P-58	82° 56' 55.969" E	22° 15' 20.437" N
P-59	82° 56' 52.748" E	22° 15' 20.163" N
P-60	82° 56' 51.104" E	22° 15' 20.163" N
P-61	82° 56' 49.596" E	22° 15' 20.917" N
P-62	82° 56' 47.197" E	22° 15' 23.521" N
P-63	82° 56' 45.347" E	22° 15' 24.275" N
P-64	82° 56' 42.880" E	22° 15' 26.262" N
P-65	82° 56' 39.865" E	22° 15' 30.237" N
P-66	82° 56' 36.918" E	22° 15' 33.046" N
P-67	82° 56' 34.999" E	22° 15' 36.473" N
P-68	82° 56' 30.819" E	22° 15' 41.407" N
P-69	82° 56' 27.598" E	22° 15' 44.148" N
P-70	82° 56' 26.502" E	22° 15' 47.849" N
P-71	82° 56' 25.748" E	22° 15' 50.179" N
P-72	82° 56' 25.629" E	22° 15' 50.265" N
P-73	82° 56' 25.631" E	22° 15' 50.272" N
P-74	82° 56' 34.739" E	22° 16' 59.738" N
P-75	82° 56' 38.315" E	22° 17' 27.012" N
P-76	82° 56' 48.341" E	22° 17' 28.229" N
P-77	82° 56' 49.201" E	22° 17' 28.355" N
P-78	82° 56' 55.302" E	22° 17' 29.298" N
P-79	82° 57' 1.074" E	22° 17' 30.287" N
P-80	82° 57' 6.424" E	22° 17' 31.285" N
P-81	82° 57' 7.021" E	22° 17' 31.400" N
P-82	82° 57' 18.463" E	22° 17' 33.808" N
P-83	82° 57' 29.416" E	22° 17' 36.468" N
P-84	82° 57' 39.720" E	22° 17' 39.293" N
P-85	82° 57' 40.246" E	22° 17' 39.445" N
P-86	82° 58' 6.273" E	22° 17' 48.042" N
P-87	82° 58' 22.970" E	22° 17' 54.651" N
P-88	82° 58' 39.796" E	22° 18' 0.449" N
P-89	82° 58' 40.588" E	22° 18' 0.744" N
P-90	82° 58' 52.731" E	22° 18' 5.507" N
P-91	82° 59' 4.047" E	22° 18' 10.407" N