Summary of the Mineral Block

PART A – GENERAL INFORMATION ABOUT MINERAL BLOCK

	Features	Details
1.	**Location**	
	Mineral Block	Mangsa-Pauni-Khauna
	Corner Points (Latitude, Longitude)	See Appendix 1
	Villages	Mangsa,Pauni, Khauna
	Tehsil/ Taluka	Tilda
	District	Raipur
	State	Chhattisgarh
2.	**Area (hectares/square kilometres)**	
	Mineralised Area	459.2494 ha
	Non-mineralised Area	0 ha
3.	**Exploration**	
	Status (G2/G3/G4 etc.)	G2
	Exploration Agency	Directorate of Geology and Mining, CG
	Total Number of Boreholes with meterage	73 Boreholes, 2110.05 m
	Borehole Spacing (Density)	Approximately 300 m
4.	**Quantity of Minerals (Grade-wise)**	
	Limestone	Cement Grade: 25 Mt Cement Grade (Blendable/Beneficable): 140 Mt Blendable Grade: 1 Mt
	Total Geological Resources (Reserves)	166 Mt
5.	**Mineralised Zones**	
	Number of Mineral Zones	One
	Trend (Dip and Strike)	NE-SW dipping 2^0 to 3^0 towards NW
	Total Thickness	Average thickness – 25.05 m
6.	**Accessibility**	
	Nearest Rail Head	Siliyari (5km)
	Road	8 Km NW of Saragaon on the Raipur – Balodabazar Road
	Airport	Raipur (50 km)
7.	**Hydrography**	
	Local Surface Drainage Pattern (Channels)	Dendritic to Sub-dendritic
	Rivers/Streams	Patthra Nala
8.	**Climate**	
	Mean Annual Rainfall	Approximately 1200 mm/annum
	Temperatures (December)	17^0 C -25^0 C
	Temperatures (June)	46^0 C
9.	**Topography**	
	Topo Sheet Number	64G/15
	Morphology of the Area	Gently Undulated

PART B – PARTICULARS OF STATUTORY LICENSES, PERMITS, PERMISSIONS, CONCESSIONS, APPROVALS AND CONSENTS RELATED TO MINING OPERATIONS

	Particulars	**Details/Status**
1.	Forest clearance	Not Required
2.	Wild life clearance (sanctuary, reserve or special zone clearances)	Not Required
3.	Mining Plan Approval	To be obtained by the Successful Bidder
4.	Environmental clearance	To be obtained by the Successful Bidder
5.	Consent to establish	To be obtained by the Successful Bidder
6.	Explosive license	To be obtained by the Successful Bidder
7.	Permission for mine opening	To be obtained by the Successful Bidder
8.	Permission of installation/ trial operation of equipment	To be obtained by the Successful Bidder
9.	Ground water clearance (Centre/State)	To be obtained by the Successful Bidder
10.	Railway siding approval	To be obtained by the Successful Bidder
11.	Approval for diesel storage	To be obtained by the Successful Bidder
12.	Power line from State Discom	To be obtained by the Successful Bidder
13.	Clearances relating to work under an existing transmission line or shifting of the transmission line	To be obtained by the Successful Bidder
14.	*Grama Sabha* consent	To be obtained by the Successful Bidder
15.	Any other clearances to start mining	To be obtained by the Successful Bidder

PART C – PARTICULARS OF LAND

	Area	**Details**
1.	Total Concession Area	459.2494 ha
2.	Forest Land with Status	NIL
3.	Government Land with Status	44.9827 ha
4.	Private Land with Status	414.2667 ha
5.	Revenue survey details of the area	Block boundary is demarcated using Differential Geographic Positioning System (DGPS) by Chhattisgarh Council of Science and Technology (CCOST).

Appendix 1: Block Boundary Corner Points

WGS 84 spheroid and datum

PILLAR NO.	LATITUDE	LONGITUDE	EASTING	NORTHING
1	21° 23' 54.90079" N	81° 46' 06.47767" E	579653.5743	2366455.9110
2	21° 23' 58.14873" N	81° 46' 06.49464" E	579653.5743	2366555.7740
3	21° 24' 01.39667" N	81° 46' 06.51162" E	579653.5743	2366655.6370
4	21° 24' 04.64461" N	81° 46' 06.52859" E	579653.5743	2366755.5010
5	21° 24' 07.89255" N	81° 46' 06.54557" E	579653.5743	2366855.3640
6	21° 24' 11.14048" N	81° 46' 06.56255" E	579653.5743	2366955.2270
7	21° 24' 14.38842" N	81° 46' 06.57952" E	579653.5743	2367055.0910
8	21° 24' 14.37911" N	81° 46' 10.05258" E	579753.5742	2367055.2940
9	21° 24' 14.36978" N	81° 46' 13.52564" E	579853.5741	2367055.4980
10	21° 24' 14.36043" N	81° 46' 16.99871" E	579953.5744	2367055.7010
11	21° 24' 14.34245" N	81° 46' 20.47172" E	580053.5742	2367055.6400
12	21° 24' 14.32445" N	81° 46' 23.94473" E	580153.5743	2367055.5790
13	21° 24' 14.30644" N	81° 46' 27.41775" E	580253.5744	2367055.5180
14	21° 24' 17.55883" N	81° 46' 27.43451" E	580253.5638	2367155.5180
15	21° 24' 20.81121" N	81° 46' 27.45127" E	580253.5531	2367255.5180
16	21° 24' 24.06360" N	81° 46' 27.46803" E	580253.5425	2367355.5190
17	21° 24' 24.04113" N	81° 46' 30.94109" E	580353.5425	2367355.3210
18	21° 24' 24.01864" N	81° 46' 34.41414" E	580453.5426	2367355.1240
19	21° 24' 23.99614" N	81° 46' 37.88719" E	580553.5426	2367354.9270
20	21° 24' 23.97361" N	81° 46' 41.36024" E	580653.5427	2367354.7300
21	21° 24' 23.95106" N	81° 46' 44.83329" E	580753.5428	2367354.5320
22	21° 24' 23.92849" N	81° 46' 48.30634" E	580853.5428	2367354.3350
23	21° 24' 23.90590" N	81° 46' 51.77939" E	580953.5429	2367354.1380
24	21° 24' 23.88329" N	81° 46' 55.25244" E	581053.5430	2367353.9400
25	21° 24' 23.86072" N	81° 46' 58.72548" E	581153.5430	2367353.7450
26	21° 24' 23.84090" N	81° 47' 02.19855" E	581253.5431	2367353.6350
27	21° 24' 23.82107" N	81° 47' 05.67160" E	581353.5431	2367353.5250
28	21° 24' 23.80121" N	81° 47' 09.14466" E	581453.5432	2367353.4150
29	21° 24' 20.54883" N	81° 47' 09.12836" E	581453.5743	2367253.4150
30	21° 24' 17.29646" N	81° 47' 09.11097" E	581453.5743	2367153.4140
31	21° 24' 14.04409" N	81° 47' 09.09358" E	581453.5743	2367053.4140
32	21° 24' 14.02422" N	81° 47' 12.56658" E	581553.5743	2367053.3040
33	21° 24' 14.00432" N	81° 47' 16.03957" E	581653.5743	2367053.1940
34	21° 24' 13.98468" N	81° 47' 19.51256" E	581753.5743	2367053.0920
35	21° 24' 13.97158" N	81° 47' 22.98558" E	581853.5743	2367053.1920
36	21° 24' 13.95845" N	81° 47' 26.45861" E	581953.5743	2367053.2920
37	21° 24' 13.94505" N	81° 47' 29.93163" E	582053.5743	2367053.3840
38	21° 24' 10.69267" N	81° 47' 29.91412" E	582053.5743	2366953.3830
39	21° 24' 07.44031" N	81° 47' 29.89660" E	582053.5743	2366853.3830

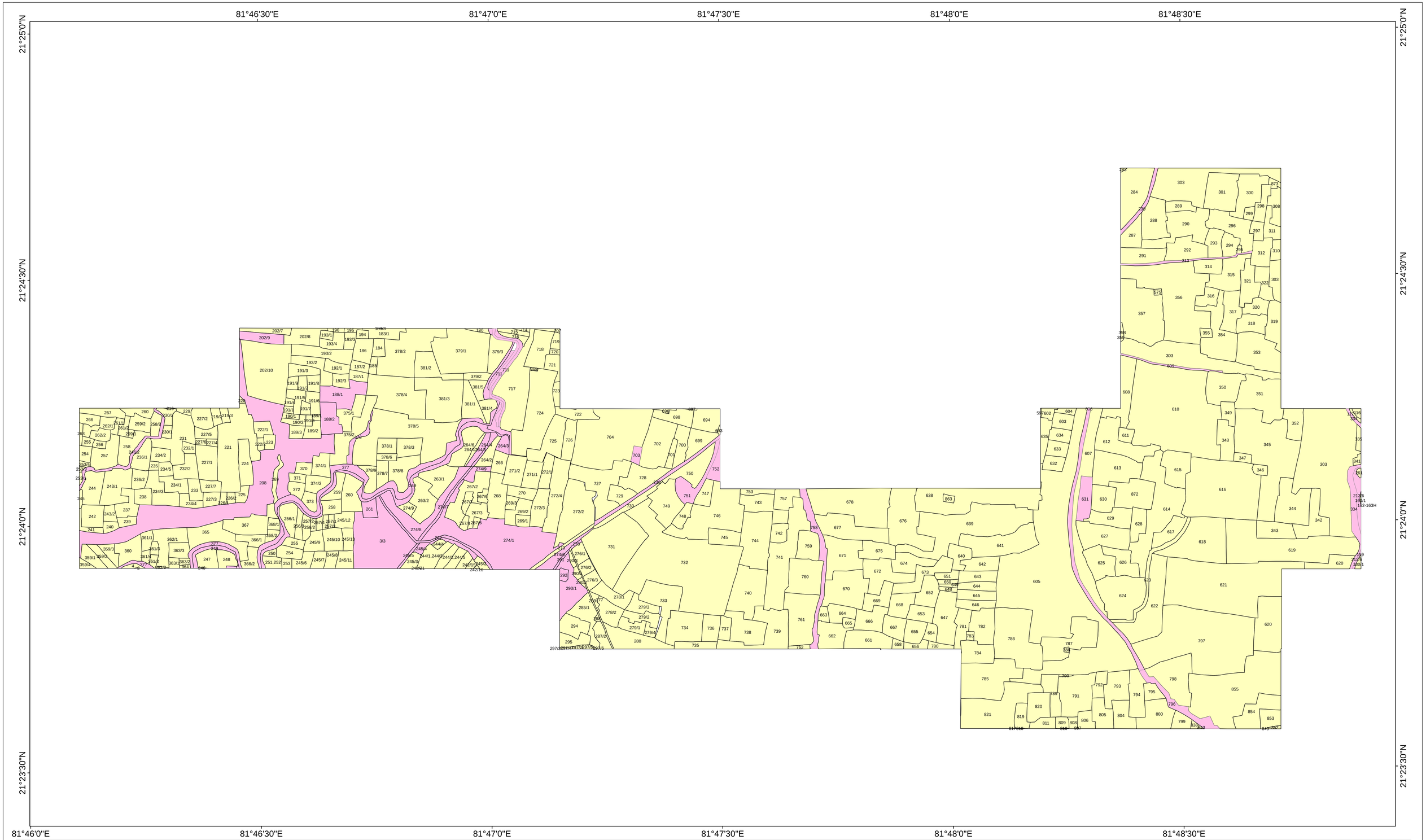
PILLAR NO.	LATITUDE	LONGITUDE	EASTING	NORTHING
40	21° 24' 04.18794" N	81° 47' 29.87909" E	582053.5743	2366753.3830
41	21° 24' 04.16795" N	81° 47' 33.35205" E	582153.5754	2366753.2730
42	21° 24' 04.14794" N	81° 47' 36.82501" E	582253.5765	2366753.1630
43	21° 24' 04.12917" N	81° 47' 40.07902" E	582347.2730	2366753.0600
44	21° 24' 04.14414" N	81° 47' 43.77097" E	582453.5743	2366754.0590
45	21° 24' 04.15821" N	81° 47' 47.24395" E	582553.5708	2366754.9980
46	21° 24' 04.17140" N	81° 47' 50.71694" E	582653.5677	2366755.9110
47	21° 24' 04.15153" N	81° 47' 54.18990" E	582753.5688	2366755.8080
48	21° 24' 04.13164" N	81° 47' 57.66285" E	582853.5699	2366755.7060
49	21° 24' 04.11134" N	81° 48' 01.20438" E	582955.5455	2366755.6010
50	21° 24' 04.09180" N	81° 48' 04.60876" E	583053.5721	2366755.5000
51	21° 24' 04.07185" N	81° 48' 08.08171" E	583153.5732	2366755.3970
52	21° 24' 04.05187" N	81° 48' 11.55467" E	583253.5743	2366755.2940
53	21° 24' 07.30424" N	81° 48' 11.57243" E	583253.5743	2366855.2950
54	21° 24' 10.55659" N	81° 48' 11.59020" E	583253.5743	2366955.2950
55	21° 24' 13.80895" N	81° 48' 11.60797" E	583253.5743	2367055.2950
56	21° 24' 13.78896" N	81° 48' 15.08094" E	583353.5743	2367055.1920
57	21° 24' 13.76894" N	81° 48' 18.55392" E	583453.5743	2367055.0890
58	21° 24' 13.74891" N	81° 48' 22.02689" E	583553.5743	2367054.9860
59	21° 24' 17.00127" N	81° 48' 22.04473" E	583553.5743	2367154.9860
60	21° 24' 20.25362" N	81° 48' 22.06256" E	583553.5743	2367254.9860
61	21° 24' 23.50600" N	81° 48' 22.07930" E	583553.5428	2367354.9870
62	21° 24' 26.75835" N	81° 48' 22.09603" E	583553.5109	2367454.9870
63	21° 24' 30.01071" N	81° 48' 22.11276" E	583553.4790	2367554.9870
64	21° 24' 33.26307" N	81° 48' 22.12949" E	583553.4471	2367654.9870
65	21° 24' 36.51543" N	81° 48' 22.14622" E	583553.4152	2367754.9870
66	21° 24' 39.76779" N	81° 48' 22.16296" E	583553.3833	2367854.9870
67	21° 24' 43.02015" N	81° 48' 22.17969" E	583553.3514	2367954.9870
68	21° 24' 43.00009" N	81° 48' 25.65285" E	583653.3514	2367954.8840
69	21° 24' 42.98001" N	81° 48' 29.12602" E	583753.3514	2367954.7810
70	21° 24' 42.95991" N	81° 48' 32.59919" E	583853.3515	2367954.6790
71	21° 24' 42.93979" N	81° 48' 36.07235" E	583953.3515	2367954.5760
72	21° 24' 42.91965" N	81° 48' 39.54551" E	584053.3516	2367954.4730
73	21° 24' 42.89949" N	81° 48' 43.01867" E	584153.3516	2367954.3700
74	21° 24' 39.64714" N	81° 48' 43.00181" E	584153.3835	2367854.3700
75	21° 24' 36.39478" N	81° 48' 42.98495" E	584153.4154	2367754.3700
76	21° 24' 33.14242" N	81° 48' 42.96809" E	584153.4473	2367654.3700
77	21° 24' 29.89007" N	81° 48' 42.95123" E	584153.4792	2367554.3700
78	21° 24' 26.63771" N	81° 48' 42.93438" E	584153.5111	2367454.3700
79	21° 24' 23.38537" N	81° 48' 42.91752" E	584153.5430	2367354.3700
80	21° 24' 20.13300" N	81° 48' 42.90064" E	584153.5743	2367254.3700
81	21° 24' 16.88064" N	81° 48' 42.88268" E	584153.5743	2367154.3700
82	21° 24' 13.62829" N	81° 48' 42.86472" E	584153.5743	2367054.3700
83	21° 24' 13.60812" N	81° 48' 46.33769" E	584253.5743	2367054.2670
84	21° 24' 13.58793" N	81° 48' 49.81065" E	584353.5743	2367054.1640
85	21° 24' 13.56772" N	81° 48' 53.28362" E	584453.5743	2367054.0610

PILLAR NO.	LATITUDE	LONGITUDE	EASTING	NORTHING
86	21° 24' 10.31183" N	81° 48' 53.26557" E	584453.5743	2366953.9520
87	21° 24' 07.05593" N	81° 48' 53.24753" E	584453.5743	2366853.8430
88	21° 24' 03.80004" N	81° 48' 53.22949" E	584453.5743	2366753.7340
89	21° 24' 00.54415" N	81° 48' 53.21145" E	584453.5743	2366653.6250
90	21° 23' 57.28825" N	81° 48' 53.19340" E	584453.5743	2366553.5160
91	21° 23' 54.03236" N	81° 48' 53.17536" E	584453.5743	2366453.4070
92	21° 23' 54.04906" N	81° 48' 49.73724" E	584354.5744	2366453.4070
93	21° 23' 54.06573" N	81° 48' 46.29911" E	584255.5744	2366453.4070
94	21° 23' 54.08239" N	81° 48' 42.86099" E	584156.5745	2366453.4070
95	21° 23' 50.81903" N	81° 48' 42.84285" E	584156.5709	2366353.0690
96	21° 23' 47.55567" N	81° 48' 42.82471" E	584156.5674	2366252.7300
97	21° 23' 44.35691" N	81° 48' 42.73837" E	584154.5897	2366154.3680
98	21° 23' 41.12679" N	81° 48' 42.68426" E	584153.5452	2366055.0460
99	21° 23' 37.86344" N	81° 48' 42.66524" E	584153.5160	2365954.7080
100	21° 23' 34.60008" N	81° 48' 42.64622" E	584153.4869	2365854.3690
101	21° 23' 34.62022" N	81° 48' 39.17351" E	584053.4870	2365854.4720
102	21° 23' 34.64034" N	81° 48' 35.70079" E	583953.4870	2365854.5750
103	21° 23' 34.66045" N	81° 48' 32.22808" E	583853.4870	2365854.6780
104	21° 23' 34.68053" N	81° 48' 28.75537" E	583753.4871	2365854.7800
105	21° 23' 34.70059" N	81° 48' 25.28265" E	583653.4871	2365854.8830
106	21° 23' 34.72063" N	81° 48' 21.80994" E	583553.4872	2365854.9860
107	21° 23' 34.74065" N	81° 48' 18.33722" E	583453.4872	2365855.0890
108	21° 23' 34.76066" N	81° 48' 14.86450" E	583353.4872	2365855.1910
109	21° 23' 34.78064" N	81° 48' 11.39178" E	583253.4872	2365855.2940
110	21° 23' 34.80060" N	81° 48' 07.91906" E	583153.4872	2365855.3970
111	21° 23' 34.82055" N	81° 48' 04.44634" E	583053.4873	2365855.5000
112	21° 23' 34.84047" N	81° 48' 00.97362" E	582953.4873	2365855.6020
113	21° 23' 38.06674" N	81° 48' 01.02679" E	582954.5128	2365954.8050
114	21° 23' 41.29300" N	81° 48' 01.07995" E	582955.5384	2366054.0080
115	21° 23' 44.51927" N	81° 48' 01.13313" E	582956.5639	2366153.2110
116	21° 23' 44.53808" N	81° 47' 57.63693" E	582855.8902	2366153.2770
117	21° 23' 44.55688" N	81° 47' 54.14074" E	582755.2164	2366153.3420
118	21° 23' 44.57504" N	81° 47' 50.75869" E	582657.8295	2366153.4060
119	21° 23' 44.64402" N	81° 47' 47.35034" E	582559.6774	2366155.0290
120	21° 23' 44.62986" N	81° 47' 43.85412" E	582459.0080	2366154.0830
121	21° 23' 44.61567" N	81° 47' 40.35790" E	582358.3387	2366153.1370
122	21° 23' 44.63291" N	81° 47' 36.86171" E	582257.6654	2366153.1580
123	21° 23' 44.65305" N	81° 47' 33.36552" E	582156.9917	2366153.2690
124	21° 23' 44.67448" N	81° 47' 29.64162" E	582049.7610	2366153.3870
125	21° 23' 44.68685" N	81° 47' 26.37311" E	581955.6444	2366153.2930
126	21° 23' 44.70005" N	81° 47' 22.87688" E	581854.9707	2366153.1930
127	21° 23' 44.71324" N	81° 47' 19.38065" E	581754.2970	2366153.0930
128	21° 23' 44.73296" N	81° 47' 15.88445" E	581653.6233	2366153.1940
129	21° 23' 44.75298" N	81° 47' 12.38826" E	581552.9496	2366153.3040
130	21° 23' 44.77298" N	81° 47' 08.89206" E	581452.2759	2366153.4150
131	21° 23' 47.99823" N	81° 47' 08.91309" E	581452.3851	2366252.5820

PILLAR NO.	LATITUDE	LONGITUDE	EASTING	NORTHING
132	21° 23' 51.22347" N	81° 47' 08.93411" E	581452.4943	2366351.7480
133	21° 23' 54.44872" N	81° 47' 08.95514" E	581452.6035	2366450.9150
134	21° 23' 54.46859" N	81° 47' 05.47774" E	581352.4728	2366451.0250
135	21° 23' 54.48845" N	81° 47' 02.00033" E	581252.3421	2366451.1350
136	21° 23' 54.55234" N	81° 46' 58.57050" E	581153.5743	2366452.6070
137	21° 23' 54.61163" N	81° 46' 55.13280" E	581054.5810	2366453.9370
138	21° 23' 54.63426" N	81° 46' 51.65541" E	580954.4504	2366454.1340
139	21° 23' 54.65687" N	81° 46' 48.17803" E	580854.3198	2366454.3320
140	21° 23' 54.67946" N	81° 46' 44.70063" E	580754.1893	2366454.5290
141	21° 23' 54.70204" N	81° 46' 41.22324" E	580654.0587	2366454.7270
142	21° 23' 54.72459" N	81° 46' 37.74585" E	580553.9281	2366454.9240
143	21° 23' 54.74712" N	81° 46' 34.26846" E	580453.7975	2366455.1220
144	21° 23' 54.76963" N	81° 46' 30.79106" E	580353.6669	2366455.3190
145	21° 23' 54.79213" N	81° 46' 27.31367" E	580253.5363	2366455.5170
146	21° 23' 54.81460" N	81° 46' 23.83627" E	580153.4057	2366455.7150
147	21° 23' 54.83675" N	81° 46' 20.35887" E	580053.2751	2366455.9030
148	21° 23' 54.84613" N	81° 46' 16.88141" E	579953.1445	2366455.6990
149	21° 23' 54.85549" N	81° 46' 13.40394" E	579853.0140	2366455.4950
150	21° 23' 54.86483" N	81° 46' 09.92647" E	579752.8834	2366455.2910

ANNEXURE - VIII

LAND SCHEDULE MAP OF MANGSA-PAUNI-KHAUNA PROSPECTING BLOCK OF LIMESTONE
TAHSIL - TILDA, DIST. - RAIPUR, (CG)



GOVERNMENT LAND	:	44.9827 Ha
PRIVATE LAND	:	414.2667 Ha
TOATAL AREA	:	**459.2494 Ha**

0 250 500 1,000 Meters

Legend

- PRIVATE LAND
- GOVERNMENT LAND

DGPS Survey Conducted & Map Prepared By
NRDIlx< vrfjfl vui;ix dan
Chhattisgarh Council of Science & Technology
MIG - 25, Indravati Colony, Raipur, C.G.

Source : http://cg.nic.in/bhunakshaweb/