

85°6'10"E		85°6'20"E		85°6'3"	
Table.1					
List of Geographical Co-ordinates (in WGS 84) of pillars along CA Land					
Name	WGS84 Latitude	WGS84 Longitude	Name	WGS84 Latitude	WGS84 Longitude
R1	23°31'4.92781"N	85°06'40.47748"E	R44	23°32'18.38087"N	85°06'40.41338"E
R2	23°31'15.39609"N	85°06'44.22941"E	R45	23°32'19.23748"N	85°06'32.26135"E
R3	23°31'17.74319"N	85°06'46.30811"E	R46	23°32'20.03698"N	85°06'26.80763"E
R4	23°31'38.05649"N	85°06'49.23770"E	R47	23°32'26.01295"N	85°06'25.09312"E
R5	23°31'35.08200"N	85°06'50.84241"E	R48	23°32'33.02883"N	85°06'21.05409"E
R6	23°33'10.45633"N	85°06'50.17996"E	R49	23°32'32.55770"N	85°06'24.58045"E
R7	23°33'12.22157"N	85°06'44.41215"E	R50	23°32'35.89846"N	85°06'25.63693"E
R8	23°33'12.15241"N	85°06'42.66468"E	R51	23°32'37.16910"N	85°06'23.73811"E
R9	23°33'11.64987"N	85°06'40.84867"E	R52	23°32'37.76496"N	85°06'24.80888"E
R10	23°32'30.47815"N	85°06'58.55052"E	R53	23°32'50.82815"E	85°06'31.19059"E
R11	23°32'59.31504"N	85°07'01.00630"E	R54	23°32'46.31669"N	85°06'32.17283"E
R12	23°32'58.08153"N	85°07'06.18020"E	R55	23°32'45.83700"N	85°06'35.59296"E
R13	23°32'58.38477"N	85°07'12.18947"E	R56	23°32'47.87001"N	85°06'35.42773"E
R14	23°32'59.84331"N	85°07'16.02706"E	R57	23°32'48.10986"N	85°06'36.61576"E
R15	23°33'03.26973"N	85°07'21.74919"E	R58	23°32'43.88394"N	85°06'38.23760"E
R16	23°32'55.45748"N	85°07'22.64006"E	R59	23°32'43.79257"N	85°06'40.91021"E
R17	23°32'55.79841"N	85°07'19.66364"E	R60	23°32'42.38636"N	85°06'43.32139"E
R18	23°32'52.70234"N	85°07'18.66998"E	R61	23°32'44.93234"N	85°06'46.54223"E
R19	23°32'52.32630"N	85°07'17.06527"E	R62	23°32'48.65572"N	85°06'47.10187"E
R20	23°32'54.77620"N	85°07'16.35142"E	R63	23°32'49.00978"N	85°06'49.77449"E
R21	23°32'58.04897"N	85°07'16.46823"E	R64	23°32'54.76618"N	85°06'52.21296"E
R22	23°32'57.46629"N	85°07'12.97215"E	R65	23°32'55.12595"N	85°06'57.72950"E
R23	23°32'56.84973"N	85°07'09.27274"E	R66	23°32'50.20475"N	85°06'59.11720"E
R24	23°32'53.62689"N	85°07'09.16451"E	R67	23°32'56.11850"N	85°07'00.01378"E
R25	23°32'50.40144"N	85°07'09.05619"E	R68	23°32'49.51473"N	85°07'10.67806"E
R26	23°32'44.30748"N	85°07'01.68576"E	R69	23°32'48.25438"N	85°07'17.18582"E
R27	23°32'41.82332"N	85°07'01.42878"E	R70	23°32'43.88737"N	85°07'12.83879"E
R28	23°32'38.15647"N	85°07'01.67148"E	R71	23°32'43.79452"N	85°07'06.87385"E
R29	23°32'38.86803"N	85°06'57.21713"E	R72	23°32'46.77017"N	85°07'05.90815"E
R30	23°32'35.89413"N	85°06'55.74663"E	R73	23°32'20.05226"N	85°07'06.95164"E
R31	23°32'36.76421"N	85°06'53.16401"E	R74	23°32'19.83172"N	85°07'11.41860"E
R32	23°32'32.29439"N	85°06'51.93423"E	R75	23°32'18.80047"N	85°07'15.53140"E
R33	23°32'27.04557"N	85°06'50.51677"E	R76	23°32'22.60963"N	85°07'16.35039"E
R34	23°32'24.79114"N	85°06'55.21838"E	R77	23°32'22.61677"N	85°07'18.16601"E
R35	23°32'22.57824"N	85°06'59.33010"E	R78	23°32'20.37531"N	85°07'19.62234"E
R36	23°32'21.31288"N	85°07'02.05696"E	R79	23°32'20.03888"N	85°07'26.31243"E
R37	23°32'16.79615"N	85°07'04.74099"E	R80	23°32'18.37085"N	85°07'25.75563"E
R38	23°32'12.71071"N	85°07'05.68325"E	R81	23°32'16.16687"E	85°07'20.54462"E
R39	23°32'11.72790"N	85°07'03.57030"E	R82	23°32'15.22996"E	85°07'15.50778"E
R40	23°32'13.94080"N	85°06'59.61563"E	R83	23°32'16.89749"N	85°07'14.79965"E
R41	23°32'15.81105"N	85°06'56.44619"E	R84	23°32'15.70976"N	85°07'13.23250"E
R42	23°32'18.06678"N	85°06'53.31957"E	R85	23°32'16.31499"N	85°07'08.35798"E
R43	23°32'19.60676"N	85°06'48.20849"E	R86	23°32'47.66341"N	85°07'05.02847"E

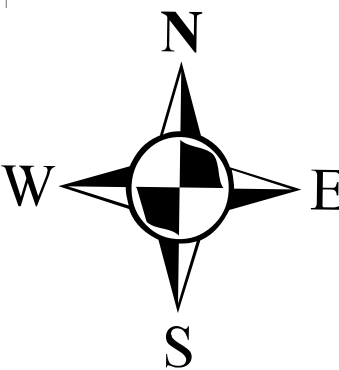
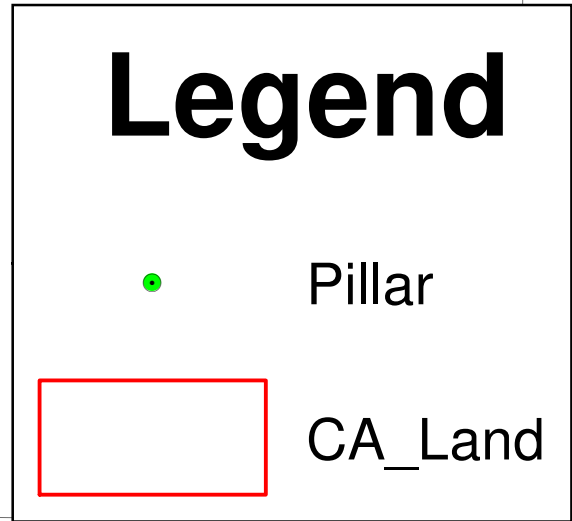
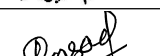
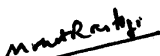


Table-II			
Distance and Bearing between pillars along CA Land			
Traverse Line	Distance	Fore Bearing	Back bearing
R1-R2	107.385	83°24'21"	263°24'21"
R2-R3	93.223	39°59'44"	219°59'44"
R3-R4	85.553	76°58'22"	256°58'22"
R4-R5	111.927	156°45'37"	336°45'37"
R5-R6	143.548	188°16'28"	8°16'28"
R6-R7	165.277	278°56'38"	98°56'38"
R7-R8	57.242	300°46'26"	120°46'26"
R8-R9	53.777	254°24'48"	74°24'48"
R9-R10	56.353	117°24'44"	297°24'44"
R10-R11	146.419	151°46'15"	331°46'15"
R11-R12	151.578	105°16'56"	285°16'56"
R12-R13	170.787	73°35'41"	253°35'41"
R13-R14	117.114	69°53'38"	249°53'38"
R14-R15	193.529	57°44'45"	337°44'45"
R15-R16	241.676	174°44'56"	354°44'56"
R16-R17	85.071	277°49'56"	79°49'56"
R17-R18	98.804	197°19'28"	17°19'28"
R18-R19	47.103	255°50'10"	75°50'10"
R19-R20	78.045	345°42'52"	165°42'52"
R20-R21	100.746	2°38'7"	182°38'7"
R21-R22	100.768	260°30'11"	80°30'11"
R22-R23	106.629	260°30'15"	80°30'15"
R23-R24	99.202	182°31'29"	2°31'29"
R24-R25	99.281	182°31'30"	2°31'30"
R25-R26	280.813	228°51'56"	48°51'56"
R26-R27	76.775	186°12'1"	8°12'1"
R27-R28	112.656	177°14'56"	357°14'56"
R28-R29	128.549	177°14'56"	108°51'1"
R29-R30	98.041	205°55'53"	25°55'53"
R30-R31	77.087	288°53'35"	108°53'35"
R31-R32	143.217	194°51'12"	14°51'12"
R32-R33	165.073	194°51'12"	14°51'12"
R33-R34	150.322	118°13'53"	298°13'53"
R34-R35	135.049	121°1'36"	301°1'36"
R35-R36	86.469	117°18'16"	297°18'16"
R36-R37	158.695	152°45'58"	332°45'58"
R37-R38	126.716	168°34'29"	348°34'29"
R38-R39	67.975	242°36'20"	62°36'20"
R39-R40	131.222	302°02'22"	122°02'22"
R40-R41	106.742	303°22'22"	123°22'22"
R41-R42	112.615	308°47'46"	128°47'46"
R42-R43	124.534	288°52'18"	108°52'18"
R43-R44	152.919	281°44'34"	91°44'34"
R44-R45	224.727	277°15'25"	97°15'25"
R45-R46	156.643	279°47'25"	99°47'25"
R46-R47	190.181	345°56'24"	165°56'24"
R47-R48	244.373	332°47'54"	152°47'54"
R48-R49	101.071	99°05"	279°05"
R49-R50	107.062	17°04'40"	197°04'40"
R50-R51	66.552	306°43'43"	126°43'43"
R51-R52	205.190	9°16'7"	189°16'7"
R52-R53	282.823	40°92'59"	220°92'59"
R53-R54	141.569	169°24'22"	349°24'22"
R54-R55	98.302	99°23'25"	279°23'25"
R55-R56	62.737	356°18'48"	176°18'48"
R56-R57	34.490	78°24'27"	258°24'27"
R57-R58	137.913	161°16'12"	341°16'12"
R58-R59	75.859	92°52'44"	272°52'44"
R59-R60	120.940	120°52'22"	30°52'22"
R60-R61	120.304	50°50'7"	270°50'7"
R61-R62	115.648	8°38'36"	188°38'36"
R62-R63	76.585	82°34'35"	262°34'35"
R63-R64	190.129	22°5'10"	202°5'10"
R64-R65	156.861	86°42'24"	266°42'24"
R65-R66	156.439	166°10'49"	346°10'49"
R66-R67	183.946	9°13'2"	189°13'2"
R67-R68	362.068	124°51'31"	304°51'31"
R68-R69	189.734	102°32'37"	282°32'37"
R69-R70	182.357	223°17'38"	43°17'38"
R70-R71	169.216	269°47'2"	89°47'2"
R71-R72	95.559	344°54'11"	164°54'11"
R72-R73	822.537	178°41'22"	358°41'22"
R73-R74	126.890	93°48'59"	273°48'59"
R74-R75	128.510	105°57'55"	285°57'55"
R75-R76	119.851	120°52'22"	30°52'22"
R76-R77	95.101	90°31'34"	270°31'34"
R77-R78	80.385	149°49'44"	329°49'44"
R78-R79	190.052	93°52'36"	273°52'36"
R79-R80	53.515	197°16'47"	17°16'47"
R80-R81	163.146	246°11'14"	66°11'14"
R81-R82	145.752	259°20'53"	79°20'53"
R82-R83	55.095	39°22'37"	159°22'37"
R83-R84	57.745	231°29'18"	51°29'18"
R84-R85	139.266	278°26'10"	98°26'10"
R85-R86	969.061	35°53'39"	175°9'33"
R86-R1	1090.193	321°32'11"	141°32'11"

Plot-wise location and area of CA Land							
Sl.No.	Plot No.	Chadar No	Village	Thana No.	Thana	District	Area (in Ha.)
1	2	1	Kotari	66	Burmu	Ranchi	4.52
2	556	1	Kotari	66	Burmu	Ranchi	3.91
3	854	1	Kotari	66	Burmu	Ranchi	6.49
4	136,163,92 & 566	1	Kotari	66	Burmu	Ranchi	89.24
Total							104.16



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Customer							Central Coalfields Limited						
Project				Preparation of Georeferenced Boundary Map of CA Land against Forest Land (126.72 Ha.) of KDH OCP CCL						Job No. 064318204			
Subject Plan Showing CA Land at Village- Kotari Thana: Burmu District: Ranchi				Activity		Name		Designation		Signature		Date	
				Surveyed / Processed by		S.Roy		Surveyor(C)					
						S.Prasad		Sr.Surveyor(C)					
						S.K.Dixit		Sr. Manager(M)		31/12			
				Checked by		M.Rastogi		Ch.Manager(C)					
Approved by		R.Kumar		HOD (Geomatics)									
 cmpdi <i>A Miniratna Company</i>				Scale -		1:4000		Sheet No. 1 of 1					
				Drg No.		H Q S & D N 1 9 0 1 9 A				REV. 0			