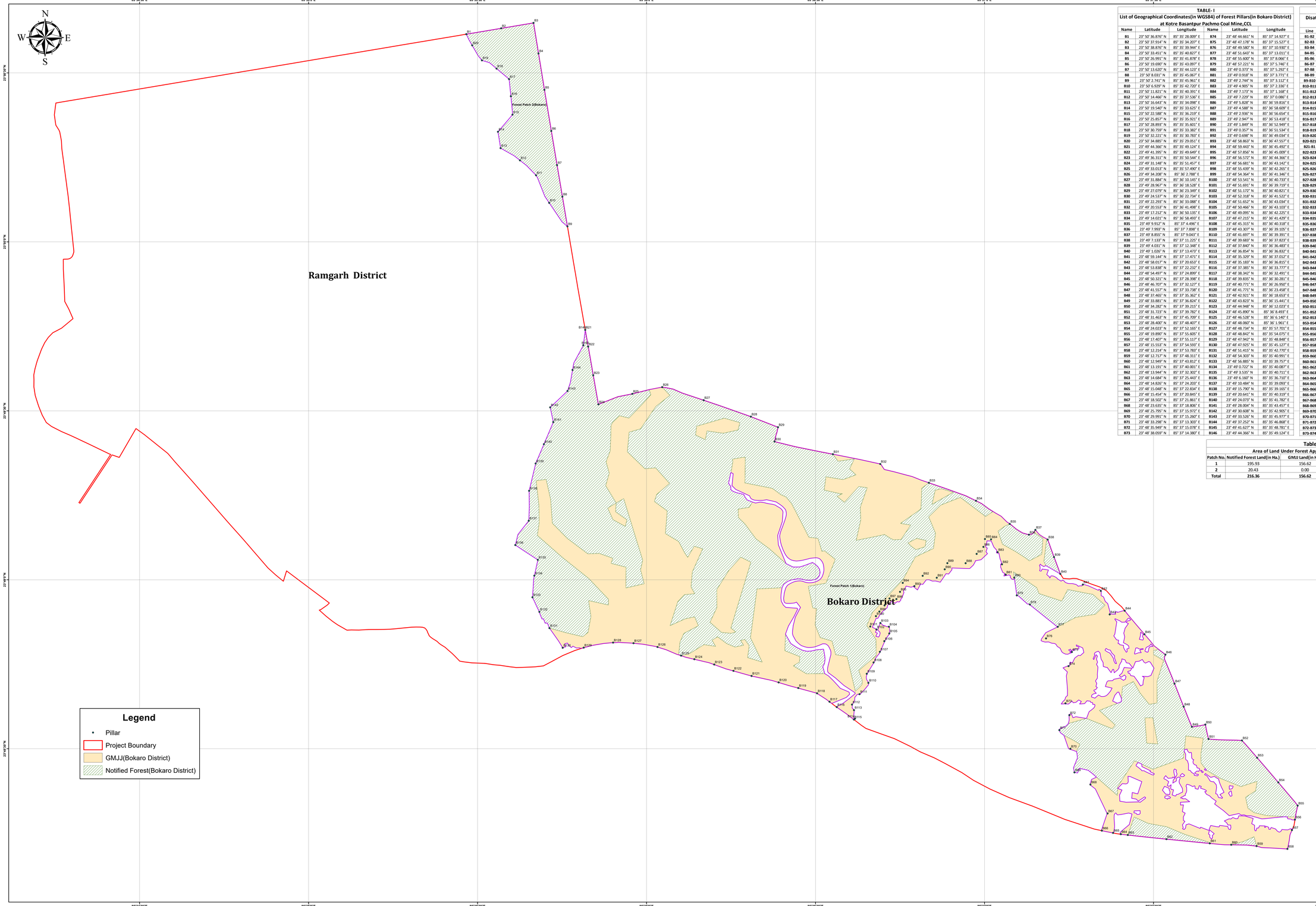

TABLE- I
List of Geographical Coordinates(in WGS84) of Forest Pillars(in Bokaro District) at Kotre Basantpur Pachmo Coal Mine,CCL

Name	Latitude	Longitude	Name	Latitude	Longitude
B1	23° 50' 36.876" N	85° 35' 28.009" E	**B74**	23° 48' 44.661" N	85° 37' 14.927" E
B2	23° 50' 37.914" N	85° 35' 34.207" E	**B75**	23° 48' 47.178" N	85° 37' 15.527" E
B3	23° 50' 38.876" N	85° 35' 39.944" E	**B76**	23° 48' 49.580" N	85° 37' 10.930" E
B4	23° 50' 33.451" N	85° 35' 40.827" E	**B77**	23° 48' 51.643" N	85° 37' 13.011" E
B5	23° 50' 26.991" N	85° 35' 41.878" E	**B78**	23° 48' 55.600" N	85° 37' 8.066" E
B6	23° 50' 19.690" N	85° 35' 43.097" E	**B79**	23° 48' 57.221" N	85° 37' 5.746" E
B7	23° 50' 13.620" N	85° 35' 44.123" E	**B80**	23° 49' 0.373" N	85° 37' 5.292" E
B8	23° 50' 8.031" N	85° 35' 45.067" E	**B81**	23° 49' 0.918" N	85° 37' 3.771" E
B9	23° 50' 2.741" N	85° 35' 45.961" E	**B82**	23° 49' 2.744" N	85° 37' 3.112" E
B10	23° 50' 6.929" N	85° 35' 42.720" E	**B83**	23° 49' 4.905" N	85° 37' 2.336" E
B11	23° 50' 11.821" N	85° 35' 40.391" E	**B84**	23° 49' 7.177" N	85° 37' 1.168" E
B12	23° 50' 14.466" N	85° 35' 37.536" E	**B85**	23° 49' 7.229" N	85° 37' 0.086" E
B13	23° 50' 16.643" N	85° 35' 34.098" E	**B86**	23° 49' 5.828" N	85° 36' 59.816" E
B14	23° 50' 19.540" N	85° 35' 33.625" E	**B87**	23° 49' 4.580" N	85° 36' 58.609" E
B15	23° 50' 22.588" N	85° 35' 36.219" E	**B88**	23° 49' 2.930" N	85° 36' 56.654" E
B16	23° 50' 25.857" N	85° 35' 35.921" E	**B89**	23° 49' 2.947" N	85° 36' 53.418" E
B17	23° 50' 28.893" N	85° 35' 35.603" E	**B90**	23° 49' 1.849" N	85° 36' 52.949" E
B18	23° 50' 30.759" N	85° 35' 33.382" E	**B91**	23° 49' 0.357" N	85° 36' 51.534" E
B19	23° 50' 32.221" N	85° 35' 30.783" E	**B92**	23° 49' 0.698" N	85° 36' 49.034" E
B20	23° 50' 34.885" N	85° 35' 29.053" E	**B93**	23° 48' 58.863" N	85° 36' 47.557" E
B21	23° 49' 44.366" N	85° 35' 49.124" E	**B94**	23° 48' 59.443" N	85° 36' 45.492" E
B22	23° 49' 41.395" N	85° 35' 49.649" E	**B95**	23° 48' 57.856" N	85° 36' 45.009" E
B23	23° 49' 36.311" N	85° 35' 50.544" E	**B96**	23° 48' 56.572" N	85° 36' 44.366" E
B24	23° 49' 31.148" N	85° 35' 51.457" E	**B97**	23° 48' 56.681" N	85° 36' 43.142" E
B25	23° 49' 33.013" N	85° 35' 57.490" E	**B98**	23° 48' 55.439" N	85° 36' 42.265" E
B26	23° 49' 34.208" N	85° 36' 2.788" E	**B99**	23° 48' 54.364" N	85° 36' 41.346" E
B27	23° 49' 31.884" N	85° 36' 10.145" E	**B100**	23° 48' 53.541" N	85° 36' 40.733" E
B28	23° 49' 28.967" N	85° 36' 18.528" E	**B101**	23° 48' 51.691" N	85° 36' 39.719" E
B29	23° 49' 27.079" N	85° 36' 23.349" E	**B102**	23° 48' 51.172" N	85° 36' 40.821" E
B30	23° 49' 24.537" N	85° 36' 22.734" E	**B103**	23° 48' 52.318" N	85° 36' 41.522" E
B31	23° 49' 22.293" N	85° 36' 33.088" E	**B104**	23° 48' 51.652" N	85° 36' 43.034" E
B32	23° 49' 20.553" N	85° 36' 41.498" E	**B105**	23° 48' 50.466" N	85° 36' 43.103" E
B33	23° 49' 17.212" N	85° 36' 50.135" E	**B106**	23° 48' 49.095" N	85° 36' 42.225" E
B34	23° 49' 14.021" N	85° 36' 58.493" E	**B107**	23° 48' 47.215" N	85° 36' 41.429" E
B35	23° 49' 9.912" N	85° 37' 4.496" E	**B108**	23° 48' 45.315" N	85° 36' 40.318" E
B36	23° 49' 7.993" N	85° 37' 7.898" E	**B109**	23° 48' 43.307" N	85° 36' 39.105" E
B37	23° 49' 8.855" N	85° 37' 9.043" E	**B110**	23° 48' 41.697" N	85° 36' 39.391" E
B38	23° 49' 7.133" N	85° 37' 11.225" E	**B111**	23° 48' 39.683" N	85° 36' 37.823" E
B39	23° 49' 4.031" N	85° 37' 12.348" E	**B112**	23° 48' 37.840" N	85° 36' 36.483" E
B40	23° 49' 1.026" N	85° 37' 13.473" E	**B113**	23° 48' 36.854" N	85° 36' 36.832" E
B41	23° 48' 59.144" N	85° 37' 17.471" E	**B114**	23° 48' 35.329" N	85° 36' 37.012" E
B42	23° 48' 58.017" N	85° 37' 20.653" E	**B115**	23° 48' 35.183" N	85° 36' 36.815" E
B43	23° 48' 53.838" N	85° 37' 22.232" E	**B116**	23° 48' 37.885" N	85° 36' 31.777" E
B44	23° 48' 54.497" N	85° 37' 24.899" E	**B117**	23° 48' 38.342" N	85° 36' 32.491" E
B45	23° 48' 50.321" N	85° 37' 28.398" E	**B118**	23° 48' 39.835" N	85° 36' 30.281" E
B46	23° 48' 46.707" N	85° 37' 32.127" E	**B119**	23° 48' 40.771" N	85° 36' 26.990" E
B47	23° 48' 41.557" N	85° 37' 33.738" E	**B120**	23° 48' 41.771" N	85° 36' 23.458" E
B48	23° 48' 37.465" N	85° 37' 35.362" E	**B121**	23° 48' 42.921" N	85° 36' 18.653" E
B49	23° 48' 33.881" N	85° 37' 36.824" E	**B122**	23° 48' 43.823" N	85° 36' 15.441" E
B50	23° 48' 34.282" N	85° 37' 39.215" E	**B123**	23° 48' 44.948" N	85° 36' 12.023" E
B51	23° 48' 31.723" N	85° 37' 39.782" E	**B124**	23° 48' 45.890" N	85° 36' 8.493" E
B52	23° 48' 31.463" N	85° 37' 45.709" E	**B125**	23° 48' 46.528" N	85° 36' 6.140" E
B53	23° 48' 28.400" N	85° 37' 48.407" E	**B126**	23° 48' 48.060" N	85° 36' 1.961" E
B54	23° 48' 24.023" N	85° 37' 52.165" E	**B127**	23° 48' 48.734" N	85° 35' 57.701" E
B55	23° 48' 19.890" N	85° 37' 55.605" E	**B128**	23° 48' 48.842" N	85° 35' 54.075" E
B56	23° 48' 17.407" N	85° 37' 55.117" E	**B129**	23° 48' 47.942" N	85° 35' 48.848" E
B57	23° 48' 15.553" N	85° 37' 54.593" E	**B130**	23° 48' 47.925" N	85° 35' 45.127" E
B58	23° 48' 12.214" N	85° 37' 53.783" E	**B131**	23° 48' 51.415" N	85° 35' 42.770" E
B59	23° 48' 12.717" N	85° 37' 48.311" E	**B132**	23° 48' 54.303" N	85° 35' 40.991" E
B60	23° 48' 12.949" N	85° 37' 43.812" E	**B133**	23° 48' 56.885" N	85° 35' 39.757" E
B61	23° 48' 13.191" N	85° 37' 40.001" E	**B134**	23° 49' 0.722" N	85° 35' 40.087" E
B62	23° 48' 13.944" N	85° 37' 32.302" E	**B135**	23° 49' 3.535" N	85° 35' 40.711" E
B63	23° 48' 14.684" N	85° 37' 25.443" E	**B136**	23° 49' 6.160" N	85° 35' 36.710" E
B64	23° 48' 14.826" N	85° 37' 24.203" E	**B137**	23° 49' 10.484" N	85° 35' 39.093" E
B65	23° 48' 15.048" N	85° 37' 22.834" E	**B138**	23° 49' 15.790" N	85° 35' 39.165" E
B66	23° 48' 15.454" N	85° 37' 20.845" E	**B139**	23° 49' 20.641" N	85° 35' 40.319" E
B67	23° 48' 18.502" N	85° 37' 21.861" E	**B140**	23° 49' 24.073" N	85° 35' 41.782" E
B68	23° 48' 23.635" N	85° 37' 18.806" E	**B141**	23° 49' 28.004" N	85° 35' 43.457" E
B69	23° 48' 25.795" N	85° 37' 15.972" E	**B142**	23° 49' 30.608" N	85° 35' 42.905" E
B70	23° 48' 29.991" N	85° 37' 15.260" E	**B143**	23° 49' 33.526" N	85° 35' 45.977" E
B71	23° 48' 33.298" N	85° 37' 13.303" E	**B144**	23° 49' 37.252" N	85° 35' 46.868" E
B72	23° 48' 35.949" N	85° 37' 15.078" E	**B145**	23° 49' 41.627" N	85° 35' 48.781" E
B73	23° 48' 38.059" N	85° 37' 14.380" E	**B146**	23° 49' 44.366" N	85° 35' 49.124" E

TABLE- II
Disatance And Bearing Between Forest Pillars(Bokaro District) of Kotre Basantpur Pachmo Coal Mine,CCL

Line	Distance	Fore-Bearing	Back-Bearing	Line	Distance	Fore-Bearing	Back-Bearing
B1-B2	178.25	80°14'44"	260°14'44"	**B74-B75**	79.27	12°55'23"	192°55'23"
B2-B3	165.00	80°14'44"	260°14'44"	**B75-B76**	149.62	300°8'49"	120°8'49"
B3-B4	168.71	172°3'24"	352°3'24"	**B76-B77**	86.59	43°25'49"	223°25'49"
B4-B5	200.95	172°3'24"	352°3'24"	**B77-B78**	185.49	311°34'18"	131°34'18"
B5-B6	227.23	171°50'21"	351°50'21"	**B78-B79**	82.44	307°46'27"	127°46'27"
B6-B7	188.95	171°43'46"	351°43'46"	**B79-B80**	97.80	353°0'41"	173°0'41"
B7-B8	173.99	171°43'46"	351°43'46"	**B80-B81**	46.18	291°50'8"	111°50'8"
B8-B9	164.67	171°43'46"	351°43'46"	**B81-B82**	59.20	342°10'21"	162°10'21"
B9-B10	158.15	325°7'3"	145°7'3"	**B82-B83**	69.99	342°13'3"	162°13'3"
B10-B11	164.27	336°54'58"	156°54'58"	**B83-B84**	77.20	335°12'41"	155°12'41"
B11-B12	114.65	315°46'54"	135°46'54"	**B84-B85**	30.67	273°48'15"	93°48'15"
B12-B13	118.09	305°6'19"	125°6'19"	**B85-B86**	43.77	190°37'36"	10°37'36"
B13-B14	90.13	352°1'10"	172°1'10"	**B86-B87**	51.22	222°22'59"	42°22'59"
B14-B15	119.06	38°37'35"	218°37'35"	**B87-B88**	75.13	227°50'52"	47°50'52"
B15-B16	100.91	355°47'12"	175°47'12"	**B88-B89**	91.55	270°47'2"	90°47'2"
B16-B17	93.86	355°1'49"	175°1'49"	**B89-B90**	36.32	202°2'16"	22°2'16"
B17-B18	85.08	312°59'26"	132°59'26"	**B90-B91**	60.91	221°39'15"	41°39'15"
B18-B19	86.18	302°1'13"	122°1'13"	**B91-B92**	71.53	279°0'18"	99°0'18"
B19-B20	95.46	329°41'11"	149°41'11"	**B92-B93**	70.23	213°3'43"	33°3'43"
B20-B21	1654.52	160°29'29"	340°29'29"	**B93-B94**	61.13	287°31'39"	107°31'39"
B21-B1	92.60	171°19'44"	351°19'44"	**B94-B95**	50.68	196°11'51"	16°11'51"
B22-B23	158.44	171°22'22"	351°22'22"	**B95-B96**	43.50	205°18'3"	25°18'3"
B23-B24	160.89	171°19'27"	351°19'27"	**B96-B97**	34.78	276°0'54"	96°0'54"
B24-B25	180.11	71°59'51"	251°59'51"	**B97-B98**	45.58	213°35'27"	33°35'27"
B25-B26	154.35	76°47'26"	256°47'26"	**B98-B99**	42.06	218°44'39"	38°44'39"
B26-B27	220.12	109°30'42"	289°30'42"	**B99-B100**	30.68	214°59'31"	34°59'31"
B27-B28	253.62	111°17'11"	291°17'11"	**B100-B101**	63.72	207°18'35"	27°18'35"
B28-B29	148.28	113°36'53"	293°36'53"	**B101-B102**	35.03	117°42'15"	297°42'15"
B29-B30	80.13	193°6'34"	13°6'34"	**B102-B103**	40.46	29°5'5"	209°5'5"
B30-B31	301.02	103°48'60"	283°48'60"	**B103-B104**	47.45	116°8'11"	296°8'11"
B31-B32	243.94	103°14'6"	283°14'6"	**B104-B105**	36.55	177°30'38"	357°30'38"
B32-B33	265.13	113°21'56"	293°21'56"	**B105-B106**	48.96	211°4'12"	31°4'12"
B33-B34	256.09	113°6'7"	293°6'7"	**B106-B107**	62.04	201°50'41"	21°50'41"
B34-B35	211.73	127°12'22"	307°12'22"	**B107-B108**	66.37	208°50'15"	28°50'15"
B35-B36	112.93	122°4'8"	302°4'8"	**B108-B109**	70.67	209°37'41"	29°37'41"
B36-B37	41.86	51°17'6"	231°17'6"	**B109-B110**	50.19	171°16'57"	351°16'57"
B37-B38	81.36	131°10'8"	311°10'8"	**B110-B111**	76.21	216°10'25"	36°10'25"
B38-B39	100.58	162°8'37"	342°8'37"	**B111-B112**	68.20	214°20'17"	34°20'17"
B39-B40	97.75	161°32'32"	341°32'32"	**B112-B113**	31.90	162°30'15"	342°30'15"
B40-B41	127.09	117°39'14"	297°39'14"	**B113-B114**	47.19	174°22'10"	354°22'10"
B41-B42	96.49	111°37'35"	291°37'35"	**B114-B115**	7.16	231°40'31"	51°40'31"
B42-B43	136.09	161°22'56"	341°22'56"	**B115-B116**	109.46	308°4'30"	128°4'30"
B43-B44	78.14	75°31'44"	255°31'44"	**B116-B117**	46.83	309°31'49"	129°31'49"
B44-B45	162.20	142°55'17"	322°55'17"	**B117-B118**	77.57	306°50'30"	126°50'30"
B45-B46	153.26	133°7'33"	313°7'33"	**B118-B119**	98.58	287°33'12"	107°33'12"
B46-B47	164.85	154°29'53"	344°29'53"	**B119-B120**	103.51	287°51'38"	107°51'38"
B47-B48	134.00	160°30'10"	340°30'10"	**B120-B121**	140.52	285°8'21"	105°8'21"
B48-B49	117.76	159°58'43"	339°58'43"	**B121-B122**	95.05	287°32'44"	107°32'44"
B49-B50	68.79	80°13'26"	260°13'26"	**B122-B123**	102.74	290°14'39"	110°14'39"
B50-B51	80.35	169°1'54"	349°1'54"	**B123-B124**	104.01	286°44'8"	106°44'8"
B51-B52	167.93	93°16'57"	273°16'57"	**B124-B125**	69.43	286°59'55"	106°59'55"
B52-B53	121.26	141°31'57"	321°31'57"	**B125-B126**	127.30	292°17'9"	112°17'9"
B53-B54	171.58	142°15'2"	322°15'2"	**B126-B127**	122.33	280°19'24"	100°19'24"
B54-B55	160.12	143°6'3"	323°6'3"	**B127-B128**	102.68	272°25'9"	92°25'9"
B55-B56	77.64	190°47'40"	10°47'40"	**B128-B129**	150.49	259°58'4"	79°58'4"
B56-B57	58.92	195°8'51"	15°8'51"	**B129-B130**	105.31	270°16'30"	90°16'30"
B57-B58	105.22	193°8'12"	13°8'12"	**B130-B131**	126.40	328°48'1"	148°48'1"
B58-B59	155.62	276°15'12"	96°15'12"	**B131-B132**	102.12	331°1'14"	151°1'14"
B59-B60	127.55	273°45'44"	93°45'44"	**B132-B133**	86.77	336°50'9"	156°50'9"
B60-B61	108.12	274°30'20"	94°30'20"	**B133-B134**	118.40	5°5'32"	185°5'32"
B61-B62	219.13	276°37'4"	96°37'4"	**B134-B135**	88.31	192°5'46"	12°5'46"
B62-B63	195.44	277°14'51"	97°14'51"	**B135-B136**	139.06	306°3'43"	126°3'43"
B63-B64	35.37	277°38'0"	97°38'0"	**B136-B137**	149.12	27°27'14"	207°27'14"
B64-B65	39.36	280°33'42"	100°33'42"	**B137-B138**	163.23	1°16'59"	181°16'59"
B65-B66	57.66	283°3'38"	103°3'38"	**B138-B139**	152.75	12°54'53"	192°54'53"
B66-B67	98.06	17°37'10"	197°37'10"	**B139-B140**	113.41	21°58'20"	201°58'20"
B67-B68	180.04	331°51'12"	151°51'12"	**B140-B141**	129.89	21°58'20"	201°58'20"
B68-B69	104.15	310°11'8"	130°11'8"	**B141-B142**	81.59	349°31'41"	169°31'41"
B69-B70	130.65	351°41'21"	171°41'21"	**B142-B143**	124.98	44°39'25"	224°39'25"
B70-B71	115.81	331°58'48"	151°58'48"	**B143-B144**	117.37	12°58'15"	192°58'15"
B71-B72	95.79	32°11'24"	212°11'24"	**B144-B145**	145.05	22°28'50"	202°28'50"
B72-B73	67.84	343°37'27"	163°37'27"	**B145-B146**	84.82	7°7'33"	187°7'33"
B73-B74	203.69	4°55'5"	184°55'5"	**B146-B1**	1722.20	340°16'11"	160°16'11"

Table-III
Area of Land Under Forest Application for Bokaro District

Patch No.	Notified Forest Land(in Ha.)	GMJJ Land(in Ha.)	Total Forest Area(in Ha.)	Remarks
1	195.93	156.62	**352.55**	
2	20.43	0.00	**20.43**	
Total	**216.36**	**156.62**	**372.98**	

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Customer **Central Coalfields Limited**

Project Preparation of Geo-Referenced Boundary Map(in ShapeFile) of Forest Land of Kotre Basantpur Pachmo Coal Mine,CCL — **Job No.** 064318157

Subject Plan Showing Forest & GMJJ Land in Bokaro District of Kotre Basantpur Pachmo Coal Mine,CCL

Activity	Name	Designation	Signature	Date
Surveyed / Processed by	S.Roy	Surveyor(C)		
	S.Prasad	Sr. Surveyor(C)		
	S.K.Dixit	Sr. Manager(M)		
Checked by	M.Rastogi	Ch.Manager(C)		
Approved by	R.Kumar	HOD (Geomatics)		

cmpdi

Scale- 1:6000 — Sheet 1 of 1

Drg No. HQ S&DN 1 8 1 2 5 — REV. No. - 1