

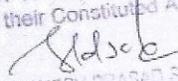
ANNEXURE- II

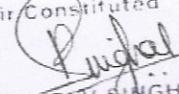
Boundary Description of Approved Forest Boundary Pillars at Bonaikela Block						
PILLAR		FORWARD BEARING		BACKWARD BEARING		DISTANCE(M)
FROM	To	DEG.	MIN.	DEG.	MIN.	
BAP1	BAP2	177	30	357	30	232
BAP2	BAP3	177	0	357	0	183
BAP3	BAP4	89	0	269	0	358
BAP4	BAP5	193	0	13	0	160
BAP5	BAP6	192	30	12	30	257
BAP6	BAP7	191	30	11	30	215
BAP7	BAP8	285	0	105	0	295
BAP8	BAP9	281	30	101	30	254
BAP9	BAP10	294	0	114	0	154
BAP10	BAP11	295	30	115	30	190
BAP11	BAP12	18	0	198	0	127
BAP12	BAP13	340	0	160	0	63
BAP13	BAP14	11	30	191	30	169
BAP14	BAP15	58	30	238	30	69
BAP15	BAP16	15	0	195	0	118
BAP16	BAP17	90	0	270	0	64
BAP17	BAP18	42	30	222	30	65
BAP18	BAP19	43	0	223	0	232
BAP19	BAP20	58	30	238	30	70
BAP20	BAP1	89	0	269	0	136
BAP21	BAP22	46	0	226	0	44
BAP22	BAP23	134	0	314	0	53
BAP23	BAP24	222	0	42	0	44
BAP24	BAP21	314	30	134	30	56
BAP25	BAP26	61	0	241	0	31
BAP26	BAP27	141	30	321	30	58
BAP27	BAP28	116	0	296	0	28
BAP28	BAP29	194	0	14	0	63
BAP29	BAP30	294	30	114	30	67
BAP30	BAP25	351	0	171	0	76
BAP31	BAP32	60	0	240	0	55
BAP32	BAP33	152	0	332	0	27
BAP33	BAP34	239	0	59	0	56
BAP34	BAP31	335	0	155	0	28
BAP35	BAP36	78	30	258	30	48
BAP36	BAP37	165	0	345	0	55
BAP37	BAP38	290	0	110	0	33
BAP38	BAP39	299	0	119	0	36
BAP39	BAP35	3	30	183	30	16

Boundary Description of future required Forest Boundary Pillars at Bonaikela Block

PILLAR		FORWARD BEARING		BACKWARD BEARING		DISTANCE(M)
FROM	To	DEG.	MIN.	DEG.	MIN.	
AF1	AF2	92	0	272	0	560
AF2	AF3	91	0	271	0	425
AF3	AF4	91	0	271	0	431
AF4	AF5	182	0	2	0	135
AF5	AF6	182	0	2	0	142
AF6	AF7	182	0	2	0	102
AF7	AF8	182	0	2	0	97
AF8	AF9	182	0	2	0	140
AF9	AF10	182	0	2	0	158
AF10	AF11	182	0	2	0	53
AF11	AF12	182	0	2	0	62
AF12	AF13	182	0	2	0	433
AF13	AF14	272	0	92	0	459
AF14	AF15	271	0	91	0	132
AF15	AF16	-180	30	0	30	41
AF16	AF17	296	0	116	0	47
AF17	AF18	196	30	16	30	146
AF18	AF19	272	0	92	0	96
AF19	AF20	297	0	117	0	60
AF20	AF21	7	0	187	0	45
AF21	AF22	54	30	234	30	143
AF22	AF23	354	30	174	30	19
AF23	AF24	255	0	75	0	60
AF24	AF25	196	0	16	0	125
AF25	AF26	253	0	73	0	58
AF26	AF27	141	30	321	30	28
AF27	AF28	116	0	296	0	63
AF28	AF29	197	0	17	0	68
AF29	AF30	294	0	114	0	71
AF30	AF31	198	0	0	0	10
AF31	AF32	98	0	278	0	57
AF32	AF33	182	0	2	0	85
AF33	AF34	271	30	91	30	74
AF34	AF35	344	30	164	30	39
AF35	AF36	350	0	170	0	134
AF36	AF37	348	30	168	30	47
AF37	AF38	349	0	169	0	76
AF38	AF39	330	0	150	0	57
AF39	AF40	50	30	230	30	254
AF40	AF41	281	0	101	0	164
AF41	AF42	295	0	115	0	222
AF42	AF43	18	0	198	0	121
AF43	AF44	339	0	159	0	61
AF44	AF45	12	0	192	0	166
AF45	AF46	58	0	238	0	69
AF46	AF47	15	0	195	30	117
AF47	AF48	90	0	270	0	64
AF48	AF49	42	30	222	30	296
AF49	AF50	42	30	222	30	70
AF50	AF51	58	30	238	30	133
AF51	AF1	89	0	269	0	238
		177	30	357	0	

FROM	To	FORWARD BEARING		BACKWARD BEARING		DISTANCE(M)
		DEG.	MIN.	DEG.	MIN.	
			30	300	30	299
AF52	AF53	120	30	300	0	145
AF53	AF54	140	0	320	0	85
AF54	AF55	163	0	343	0	119
AF55	AF56	183	30	363	30	99
AF56	AF57	129	30	309	30	113
AF57	AF58	96	0	276	0	102
AF58	AF59	156	0	336	0	84
AF59	AF60	206	0	26	0	29
AF60	AF61	121	30	301	30	273
AF61	AF62	182	0	2	0	190
AF62	AF63	274	30	94	30	193
AF63	AF64	315	0	135	0	388
AF64	AF65	315	30	495	30	564
AF65	AF52	2	0	182	0	

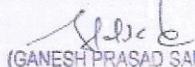
FOR TATA STEEL LTD.
 By their Constituted Attorney

 (GANESH PRASAD SINGH)
 Head (Ferro Alloys Production)
 Ferro Alloys & Minerals Division

For Tata Steel Ltd.
 By their Constituted Attorney

 RAJEEV SINGHAL
 Executive-in-Charge
 Ferro Alloys & Minerals

Coordinate of Non-Forest land Recorded as Forest in Government Records as on
25.10.1980 within Bamebari Block.

Pillar No.	Latitude	longitude	Pillar No.	Latitude	longitude
SF1	21°53'39"	85°25'43.91"	SF34	21°54'29.45"	85°25'25.39"
SF2	21°53'39"	85°25'43.91"	SF35	21°54'29.44"	85°25'25.5"
SF3	21°53'40.78"	85°25'42.94"	SF36	21°54'29.05"	85°25'25.58"
SF4	21°53'42.98"	85°25'41.77"	SF37	21°54'28.61"	85°25'25.58"
SF5	21°53'46.25"	85°25'41.08"	SF38	21°54'28.25"	85°25'25.43"
SF6	21°53'46.96"	85°25'41.1"	SF39	21°54'27.83"	85°25'25.4"
SF7	21°53'49.13"	85°25'41.14"	SF40	21°54'26.83"	85°25'25.09"
SF8	21°53'51.49"	85°25'41.73"	SF41	21°54'25.86"	85°25'25.18"
SF9	21°53'52.5"	85°25'41.72"	SF42	21°54'25.41"	85°25'25.4"
SF10	21°53'54.42"	85°25'41.26"	SF43	21°54'25.24"	85°25'25.56"
SF11	21°53'56.33"	85°25'41.7"	SF44	21°54'25.07"	85°25'25.64"
SF12	21°53'57.09"	85°25'42.63"	SF45	21°54'24.9"	85°25'25.72"
SF13	21°53'57.15"	85°25'49.87"	SF46	21°54'24.2"	85°25'26.06"
SF14	21°54'7.043"	85°25'50.33"	SF47	21°54'23.49"	85°25'26.41"
SF15	21°54'7.176"	85°25'47.7"	SF48	21°54'22.26"	85°25'27.02"
SF16	21°54'9.7"	85°25'47.85"	SF49	21°54'22.23"	85°25'26.47"
SF17	21°54'11.27"	85°25'48.21"	SF50	21°54'18.99"	85°25'26.95"
SF18	21°54'14.5"	85°25'47.89"	SF51	21°54'18.96"	85°25'24.54"
SF19	21°54'19.11"	85°25'48.48"	SF52	21°54'18.87"	85°25'23.94"
SF20	21°54'18.88"	85°25'34.64"	SF53	21°54'7.16"	85°25'24.47"
SF21	21°54'22.99"	85°25'35.49"	SF54	21°54'5.2"	85°25'25.5"
SF22	21°54'22.98"	85°25'31.52"	SF55	21°54'4.9"	85°25'25.67"
SF23	21°54'30.64"	85°25'31.38"	SF56	21°54'2.77"	85°25'26.61"
SF24	21°54'30.68"	85°25'31.14"	SF57	21°54'0.94"	85°25'27.31"
SF25	21°54'31.94"	85°25'30.74"	SF58	21°53'58.19"	85°25'28.47"
SF26	21°54'32.69"	85°25'27.52"	SF59	21°53'55.83"	85°25'29.5"
SF27	21°54'32.7"	85°25'27.25"	SF60	21°53'54.08"	85°25'30.03"
SF28	21°54'32.12"	85°25'27.24"	SF61	21°53'52.09"	85°25'30.47"
SF29	21°54'31.86"	85°25'26.22"	SF62	21°53'49.47"	85°25'31.02"
SF30	21°54'31.13"	85°25'25.92"	SF63	21°53'49.57"	85°25'33.31"
SF32	21°54'30.95"	85°25'25.28"	SF64	21°53'38.87"	85°25'33.55"
SF33	21°54'29.67"	85°25'25.38"			

FOR TATA STEEL LTD.
By their Constituted Attorney


(GANESH PRASAD SAHU)
Head (Ferro Alloys Production)
Ferro Alloys & Minerals Division)

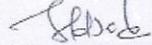
Boundary Description of Approved Forest Boundary Pillars at Joribar Block						
PILLAR		FORWARD BEARING		BACKWARD BEARING		DISTANCE(M)
FROM	To	DEG.	MIN.	DEG.	MIN.	
BAP1	BAP2	96	0	276	0	188
BAP2	BAP3	168	0	348	0	158
BAP3	BAP4	88	30	268	30	96
BAP4	BAP5	181	30	1	30	210
BAP5	BAP6	256	30	76	30	272
BAP6	BAP7	265	30	85	30	219
BAP7	BAP8	253	30	73	30	61
BAP8	BAP9	357	30	177	30	277
BAP9	BAP10	25	0	205	0	133
BAP10	BAP11	79	0	259	0	173
BAP11	BAP1	18	0	198	0	54
BAP12	BAP13	83	0	263	0	117
BAP13	BAP14	165	0	345	0	26
BAP14	BAP15	92	0	272	0	112
BAP15	BAP16	182	0	2	0	49
BAP16	BAP17	217	0	37	0	47
BAP17	BAP18	195	0	15	0	61
BAP18	BAP19	271	0	91	0	30
BAP19	BAP20	319	0	139	0	50
BAP20	BAP21	267	0	87	0	64
BAP21	BAP22	307	30	127	30	68
BAP22	BAP12	354	0	174	0	83
BAP23	BAP24	123	30	303	30	34
BAP24	BAP21	104	0	284	0	73
BAP25	BAP26	65	0	245	0	44
BAP26	BAP27	100	0	280	0	52
BAP27	BAP28	194	0	374	0	66
BAP28	BAP29	273	0	93	0	126
BAP29	BAP30	209	0	29	0	45
BAP30	BAP31	279	0	99	0	105
BAP31	BAP32	30	30	210	30	37
BAP32	BAP33	56	0	236	0	67
BAP33	BAP23	3	0	183	0	38

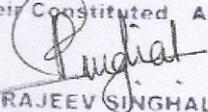
PILLAR		FORWARD BEARING		BACKWARD BEARING		DISTANCE(M)
BAP34	BAP35	92	0	272	0	80
BAP35	BAP36	54	0	234	0	76
BAP36	BAP37	76	0	256	0	78
BAP37	BAP38	110	0	290	0	63
BAP38	BAP39	90	0	270	0	73
BAP39	BAP40	172	30	352	30	84
BAP40	BAP41	261	0	81	0	42
BAP41	BAP42	302	30	122	30	27
BAP42	BAP43	270	30	90	30	219
BAP43	BAP44	180	30	0	30	42
BAP44	BAP45	272	0	92	0	79
BAP45	BAP34	2	30	182	30	74

BAP46	BAP47	90	0	270	0	64
BAP47	BAP48	183	0	3	0	27
BAP48	BAP49	270	0	90	0	61
BAP49	BAP46	355	0	175	0	27

BAP50	BAP51	89	0	269	0	103
BAP51	BAP52	198	0	18	0	339
BAP52	BAP53	270	0	90	0	75
BAP53	BAP50	13	30	193	30	330

Boundary Description of future required Forest Boundary Pillars at Joribar Block						
PILLAR						
FROM	To	FORWARD BEARING		BACKWARD BEARING		DISTANCE(M)
		DEG.	MIN.	DEG.	MIN.	
AF1	AF2	88	30	268	30	310
AF2	AF3	174	0	354	0	27
AF3	AF4	90	0	270	0	60
AF4	AF5	3	30	180	30	27
AF5	AF6	91	0	271	0	164
AF6	AF7	193	30	13	30	330
AF7	AF8	90	0	270	0	74
AF8	AF9	194	0	14	0	26
AF9	AF10	265	30	85	30	214
AF10	AF11	215	0	35	0	134
AF11	AF12	112	0	292	0	78
AF12	AF13	180	0	0	0	193
AF13	AF14	267	30	87	30	190
AF14	AF15	178	0	358	0	35
AF15	AF16	272	0	92	0	112
AF16	AF17	345	0	165	0	26
AF17	AF18	263	0	83	0	117
AF18	AF19	173	30	353	30	83
AF19	AF20	127	30	307	0	68
AF20	AF21	87	0	267	0	64
AF21	AF22	138	30	318	30	50
AF22	AF23	91	30	271	30	30
AF23	AF24	15	0	195	0	61
AF24	AF25	170	30	350	30	142
AF25	AF26	268	0	88	0	357
AF26	AF27	183	30	3	30	76
AF27	AF28	268	30	88	30	96
AF28	AF29	348	0	168	0	158
AF29	AF30	276	0	96	0	188
AF30	AF31	198	0	18	0	54
AF31	AF32	259	0	79	0	173
AF32	AF33	27	0	207	0	244
AF33	AF34	89	0	269	0	415
AF34	AF35	359	0	179	0	340
AF35	AF36	85	30	265	30	218
AF36	AF37	0	0	180	0	90
AF37	AF38	92	0	272	0	79
AF38	AF39	0	30	180	30	42
AF39	AF40	90	30	270	30	219
AF40	AF41	122	30	302	30	27
AF41	AF42	81	0	261	0	42
AF42	AF43	352	30	172	30	84
AF43	AF44	270	0	90	0	73
AF44	AF45	290	0	110	0	63
AF45	AF46	256	0	76	0	78
AF46	AF47	234	0	54	0	76
AF47	AF48	271	30	91	30	80
AF48	AF1	1	30	181	30	211

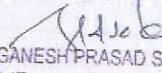
FOR TATA STEEL LTD.
By their Constituted Attorney

(GANESH PRASAD SAHU)
Head (Ferro Alloys Production)
Ferro Alloys & Minerals Division)

For Tata Steel Ltd.
By their Constituted Attorney

RAJEEV SINGHAL
Executive-in-Charge
Ferro Alloys & Minerals

Coordinate of Non-Forest land Recorded as Forest in Government Records as on
25.10.1980 within Bonaikela Block.

Pillar No.	latitude	longitude	Pillar No.	latitude	longitude
SF1	22°2'50.75"	85°24'47.83"	SF26	22°2'36.63"	85°24'58.03"
SF2	22°2'50.26"	85°24'47.97"	SF27	22°2'36.35"	85°24'58.83"
SF3	22°2'49.73"	85°24'48.77"	SF28	22°2'33.95"	85°25'1.37"
SF4	22°2'49.59"	85°24'49.07"	SF29	22°2'32.27"	85°25'2.2"
SF5	22°2'49.34"	85°24'49.46"	SF30	22°2'32.27"	85°25'2.86"
SF6	22°2'49.11"	85°24'50.43"	SF31	22°2'37.13"	85°25'2.89"
SF7	22°2'48.97"	85°24'51.71"	SF32	22°2'37.04"	85°25'1.84"
SF8	22°2'48.72"	85°24'52.71"	SF33	22°2'37"	85°24'58.28"
SF9	22°2'48.67"	85°24'53.06"	SF34	22°2'37"	85°24'58.26"
SF10	22°2'48.25"	85°24'53.54"	SF35	22°2'37.12"	85°24'57.98"
SF11	22°2'47.9"	85°24'53.7"	SF36	22°2'37.29"	85°24'57.67"
SF12	22°2'47.56"	85°24'53.85"	SF37	22°2'37.65"	85°24'57.23"
SF13	22°2'46.7"	85°24'54.19"	SF38	22°2'38.48"	85°24'56.8"
SF14	22°2'43.59"	85°24'54.89"	SF39	22°2'39.87"	85°24'56.34"
SF15	22°2'41.55"	85°24'55.58"	SF40	22°2'41.56"	85°24'55.9"
SF16	22°2'40.03"	85°24'56"	SF41	22°2'43.34"	85°24'55.24"
SF17	22°2'39.19"	85°24'56.23"	SF42	22°2'45.39"	85°24'54.77"
SF18	22°2'38.67"	85°24'56.38"	SF43	22°2'46.99"	85°24'54.37"
SF19	22°2'38.6"	85°24'56.4"	SF44	22°2'48.01"	85°24'54.04"
SF20	22°2'38.32"	85°24'56.52"	SF45	22°2'48.09"	85°24'54.01"
SF21	22°2'37.96"	85°24'56.69"	SF46	22°2'48.44"	85°24'53.77"
SF22	22°2'37.93"	85°24'56.7"	SF47	22°2'48.82"	85°24'53.37"
SF23	22°2'37.01"	85°24'57.33"	SF48	22°2'49.26"	85°24'52.52"
SF24	22°2'36.73"	85°24'57.77"	SF49	22°2'49.25"	85°24'51.15"
SF25	22°2'36.71"	85°24'57.8"	SF50	22°2'49.78"	85°24'49.34"
			SF51	22°2'50.2"	85°24'48.59"

FOR TATA STEEL LTD.
By their Constituted Attorney


(GANESH PRASAD SAHU)
Head (Ferro Alloys Production)
Ferro Alloys & Minerals Division

Boundary Description of Approved Forest Boundary Pillars at Bamebari Block						
PILLAR		FORWARD BEARING		BACKWARD BEARING		DISTANCE(M)
FROM	To	DEG.	MIN.	DEG.	MIN.	
BAP1	BAP2	75	0	255	0	108
BAP2	BAP3	91	0	271	0	595
BAP3	BAP4	185	0	5	0	322
BAP4	BAP5	184	0	4	0	467
BAP5	BAP6	184	0	4	0	238
BAP6	BAP7	270	0	90	0	76
BAP7	BAP8	12	0	192	0	43
BAP8	BAP9	356	30	176	30	95
BAP9	BAP10	9	0	189	0	137
BAP10	BAP11	273	0	93	0	404
BAP11	BAP12	11	0	191	0	139
BAP12	BAP13	271	0	91	0	112
BAP13	BAP14	0	30	180	30	227
BAP14	BAP15	341	0	161	0	42
BAP15	BAP16	290	30	110	30	76
BAP16	BAP17	1	0	181	0	76
BAP17	BAP18	76	0	256	0	17
BAP18	BAP19	356	0	176	0	44
BAP19	BAP20	287	0	107	0	14
BAP20	BAP1	0	30	180	30	158
BAP21	BAP22	92	0	272	0	46
BAP22	BAP23	193	0	13	0	37
BAP23	BAP24	269	0	89	0	21
BAP24	BAP21	336	30	156	30	41
BAP25	BAP26	97	30	277	30	76
BAP26	BAP27	183	30	3	30	87
BAP27	BAP28	182	0	2	0	63
BAP28	BAP29	272	30	92	30	143
BAP29	BAP30	29	30	209	30	63
BAP30	BAP31	90	0	270	0	16
BAP31	BAP25	16	30	196	30	103
BAP32	BAP33	95	0	275	0	106
BAP33	BAP34	179	0	359	0	305
BAP34	BAP335	269	30	89	30	39
BAP35	BAP36	332	0	152	0	138
BAP36	BAP37	351	0	171	0	107
BAP37	BAP32	6	0	186	0	90

Boundary Description of future required Forest Boundary Pillars at Bamebari Block						
PILLAR						
FROM	To	FORWARD BEARING		BACKWARD BEARING		DISTANCE(M)
		DEG.	MIN.	DEG.	MIN.	
AF1	AF2	89	30	269	30	76
AF2	AF3	185	30	5	30	112
AF3	AF4	273	0	93	0	84
AF4	AF1	10	0	190	0	108
AF5	AF6	92	0	272	0	208
AF6	AF7	184	0	4	0	552
AF7	AF8	269	30	89	30	96
AF8	AF9	359	0	179	0	306
AF9	AF10	275	0	95	0	106
AF10	AF11	8	0	188	0	102
AF11	AF12	352	30	172	30	67
AF12	AF13	12	30	192	30	56
AF13	AF5	45	30	225	30	29
AF14	AF15	92	30	272	30	143
AF15	AF16	183	0	3	0	125
AF16	AF17	272	30	92	30	21
AF17	AF18	188	30	8	30	49
AF18	AF19	270	0	90	0	14
AF19	AF20	359	0	179	0	142
AF20	AF21	270	0	450	0	45
AF21	AF22	178	0	358	0	140
AF22	AF23	286	30	106	30	17
AF23	AF24	341	0	161	0	65
AF24	AF25	269	30	89	30	23
AF25	AF26	3	0	183	0	86
AF26	AF14	16	0	196	0	25

FOR TATA STEEL LTD.
 By their Constituted Attorney
(Signature)
 (GANESH PRASAD SAHU)
 Head (Ferro Alloys Production)
 Ferro Alloys & Minerals Division

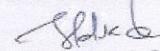
For Tata Steel
 By their Constituted Attorney
(Signature)
 Executive in
 Ferro Alloys

Coordinate of Non-Forest land Recorded as Forest in Government Records as on
25.10.1980 within Joribar Block.

Pillar No.	latitude	longitude	Pillar No.	latitude	longitude
SF1	21°56'17.36"	85°25'4.61"	SF20	21°56'24.37"	85°25'5.39"
SF2	21°56'17.05"	85°25'4.02"	SF21	21°56'24.86"	85°25'5.79"
SF3	21°56'16.44"	85°25'3.57"	SF22	21°56'25.42"	85°25'6.25"
SF4	21°56'16.22"	85°25'3.4"	SF23	21°56'25.26"	85°25'6.61"
SF5	21°56'14.78"	85°25'2.72"	SF24	21°56'22.76"	85°25'6.44"
SF6	21°56'14.96"	85°24'59.7"	SF25	21°56'22.62"	85°25'6.1"
SF7	21°56'14.19"	85°24'59.1"	SF26	21°56'21.19"	85°25'5.99"
SF8	21°56'14.2"	85°24'58.7"	SF27	21°56'20.56"	85°25'5.77"
SF9	21°56'16.52"	85°24'59.5"	SF28	21°56'19.79"	85°25'5.18"
SF10	21°56'18.17"	85°25'0.11"	SF29	21°56'18.93"	85°25'5.2"
SF11	21°56'19"	85°25'0.44"	SF30	21°56'25.8"	85°25'4.79"
SF12	21°56'19"	85°25'0.44"	SF31	21°56'25.18"	85°25'4.71"
SF13	21°56'19"	85°25'0.44"	SF32	21°56'25.58"	85°25'3.35"
SF14	21°56'19.65"	85°25'0.69"	SF33	21°56'25.8"	85°25'3.4"
SF15	21°56'21.17"	85°25'1.23"	SF34	21°56'25.8"	85°25'1.88"
SF16	21°56'23.01"	85°25'1.79"	SF35	21°56'25.53"	85°25'1.79"
SF17	21°56'24.64"	85°25'2.32"	SF36	21°56'25.53"	85°25'1.78"
SF18	21°56'25.17"	85°25'2.47"	SF37	21°56'25.47"	85°25'1.76"
SF19	21°56'24.67"	85°25'4.71"	SF38	21°56'25.8"	85°25'0.87"

FOR TATA STEEL LTD.

By their Constituted Attorney



(GANESH PRASAD SAHU)

Head (Ferro Alloys Production)
Ferro Alloys & Minerals Division