Barra Block Summary
PART A

Sr. No.	Features	Details
1.	**Location**	
	Coal Block	Barra
	Latitude	22° 6' 38" N-22° 10' 43" N (Provisional)
	Longitude	82° 59' 17" E-83° 5' 17" E (Provisional)
	Topo Sheet No.	64 J/16 & 64 N/4
	Coalfield	Mand-Raigarh
	Villages	Barra,Jobi villages
	Tehsil/Taluka	Kharsia
	District	Raigarh
	State	Chhattisgarh
2.	**Connectivity with Block**	
	Nearest Rail Head	Kharsia is the nearest railhead on the Howrah-Mumbai line of South-East Central Railway.
	Road	Barra block is located about 16 km north of Kharsia town, the tehsil town and can be approached through Kharsia-Dharamjaigarh State Highway No. 22.
	Airport	
3.	**Area**	
	Geological Block Area	24.28 sq km (As per shape file. Refer note below)
	Forest Area	4.37 sq.km (As per FSI Map)
	Non-Forest Area	19.91 sq,km
4.	**Climate and Topography**	
	Average Annual Rainfall	1500mm
	Temperature (Min. — Max.)	7^0C during December to 48^0C in the month of May
	Local Surface Drainage Channels	Dom Nala flows in the south eastern part of the block
	Rivers	The Mand river flowing from north-west to south-east direction on the eastern boundary of the block.
5.	**Exploration**	
	Status	Partially explored (Under regional exploration through promotional scheme)
	Exploration Agency	MECL

	Total Number of Boreholes with meterage	16 boreholes & 6458 m (as on 01.01.2021)			
	Borehole Density	0.65 boreholes per sq km (as on 01.01.2021)			
	General Dip of Seams	The dip of the strata varies from 8° to 15° show north-easterly to easterly dip.			
	General Strike Direction	The general strike is NW-SE			
	Faults				
6.	**Coal Seams & Reserve**				
	Coal Seams	Thickness Range (m)	Depth Range (m)	Resources (mt)	Grade
	XXVI	6.8	538.8		
	XXV	1.52-2.59	546.07-550.35		
	XXIV	3.02-3.41	563.62-579.21		
	XXIIIB	0.76-14.19	50-616.6		
	XXIIIM	0.55-3.87	42.27-311.2		
	XXIIIT	0.81-10.5	34-614.07		
	XXII	0.51-11.5	20.19-350.6		
	XXIIB	0.79-4.82	70.37-109.77		
	XXIIM	1.19-1.3	68.6-98.8		
	XXIIT	2.01-6.12	66.26-93.8		
	XXI	1.82-11.07	44.2-379.82		
	XXIB	0.28-1.47	85.9-87.77		
	XXIM	2.6-2.6	82.22-82.22		
	XXIT	0.32-1.09	77.09-85.11		
	XX	0.2-5.97	74-394.15		
	XIXB	0.42-4.84	128.62-174.39		
	XIXM	0.73-0.98	126.08-167.3		
	XIXT	0.5-1.9	123.9-162.4		
	XVIII+XVII	13.67-14.84	152.65-432.85		
	XVIII	0.25-9	132.2-151.18		
	XVII	0.94-16.74	141.18-639.2		
	XVI	0.89-7.44	153.36-463.6		
	XV	0.27-5.58	162.57-676.2		
	XVB	0.48-0.48	171.35-171.35		
	XVT	0.5-0.5	169.5-169.5		
	XIV	0.24-8.86	184.2-715.85		
	XIVB	1.61-1.61	238.42-238.42		
	XIVT	5.63-5.63	232.68-232.68		

	XIIIB	1.02-1.02	200.02-200.02		
	XIIM	0.77-0.77	265.4-265.4		
	XIIIT	0.35-0.35	198.4-198.4		
	XII	0.31-6.08	201.36-590.6		
	XIIB	0.55-0.55	266.9-266.9		
	XIIT	0.75-0.75	262.88-262.88		
	XI	0.54-6.09	211-572.71		
	X	1.9-12.67	254.66-804.15		
	XB	0.7-0.7	292-292		
	XM	0.3-2.06	230.15-290.8		
	XT	1.34-1.97	228.43-285.74		
	IX+VIII	7.3-7.3	626.3-626.3		
	IX	6.53-13.78	294.14-812.94		
	VIII	1.67-13.6	326.29-900.1		
	VI+VII	23.42-23.42	499-499		
	VII	1.29-19.33	355.15-934.85		
	VI	0.64-13.2	362.59-949		
	V	0.64-17.27	402.76-965.6		
	IV	4.96-7.03	500.03-655.76		
	III	10.33-18.17	591.77-734.33		
	IIIA	1.81-1.81	722.45-722.45		
	II	0.21-2.66	708.38-827.15		
	IIA	0.13-0.3	686.11-812.59		
	I	0.05-0.12	724.5-847.71		
	Total			**900**	
	Note: The block is under regional exploration and the statistics of thickness and depth are highly tentative based on 16 no. of boreholes drilled by MECL.These may vary after final correlation of seams and report preparation.				
7.	**Surface Constraints**	Barra,Jobi villages,Dense mixed jungle, a small patch of Karam Dongri Reserved Forest;			
8.	**Grade of coal**	N.A.			
9.	**Decision Support System (DSS) Analysis**	Hydrology info: The polygon is within 250 meters of major river(s) - Mand River Wildlife info: The polygon touches Wildlife Habitat(s), Sloth Bear			
10.	**Eco Sensitive Zone (ESZ)**	NW boundary of the block is approx. 13 km from the boundary of buffer zone of unnotified Lemru Elephant Reserve.			

Note:

1. The summary has been compiled from The exploration scheme for regional exploration of coal in Barra block,Mand-Raigarh coalfield,MECL,September 2018.
2. Occurrence of 35 coal-shale horizons, including 15 major seams with Local seams occur in Barakar Formation, having thickness ranging from 0.48 m to 28.00 m, (considering the thickness of all split sections of the seam) are recorded during the

regional exploration done in neighbouring West of Chhal block by MECL. The quality of Coal Seams in the neighbouring Chhal block ranges from G12 to G6 grade dominantly.

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.

Barra Block, Mand Raigarh Coalfield

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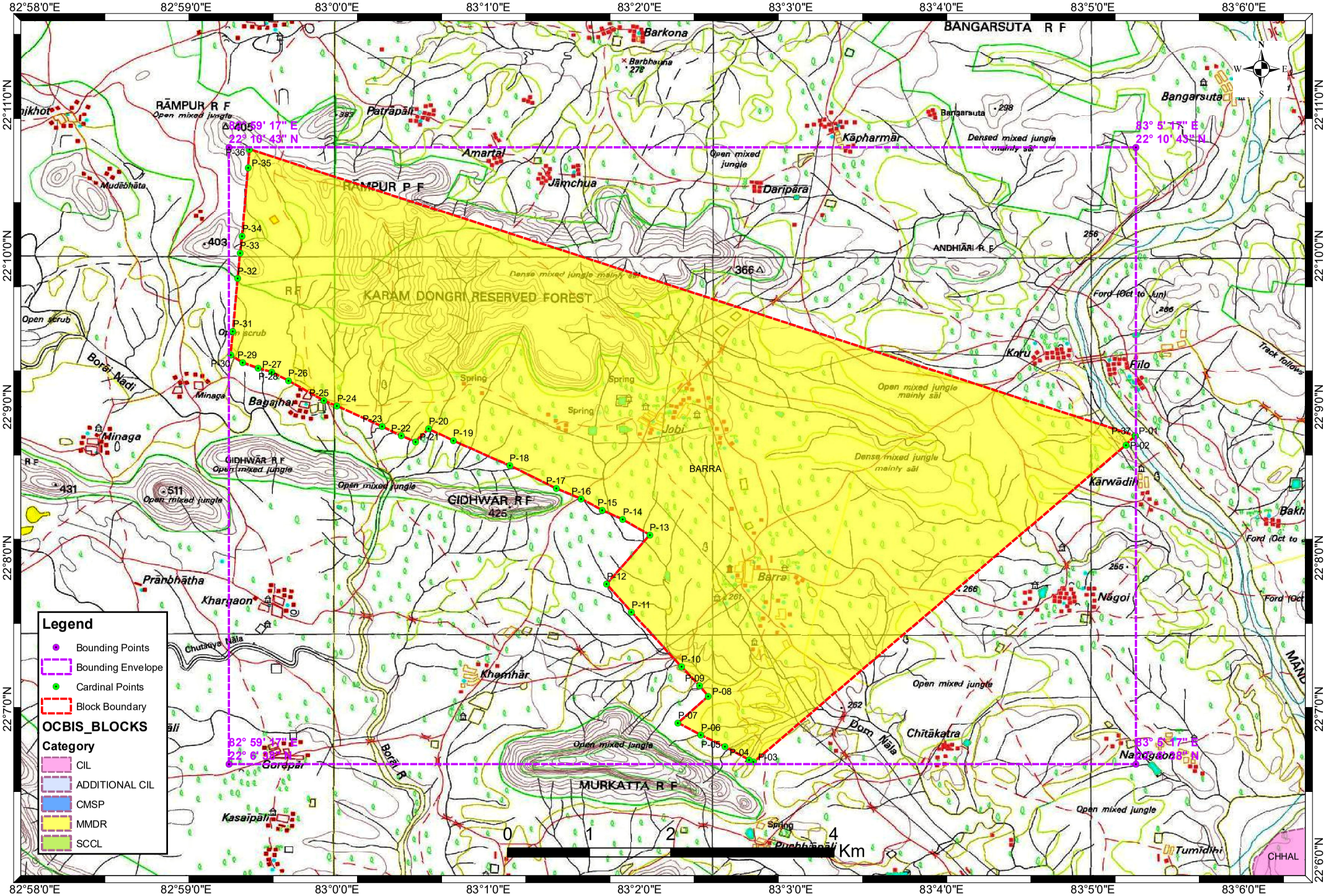

Provisional Cardinal Points for BARRA Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-1	83° 5' 16.694" E	22° 8' 48.537" N
P-2	83° 5' 12.999" E	22° 8' 44.749" N
P-3	83° 2' 45.369" E	22° 6' 38.868" N
P-4	83° 2' 43.516" E	22° 6' 39.717" N
P-5	83° 2' 33.874" E	22° 6' 44.995" N
P-6	83° 2' 24.421" E	22° 6' 49.584" N
P-7	83° 2' 15.243" E	22° 6' 54.434" N
P-8	83° 2' 27.247" E	22° 7' 4.981" N
P-9	83° 2' 23.855" E	22° 7' 9.195" N
P-10	83° 2' 16.523" E	22° 7' 16.758" N
P-11	83° 1' 56.899" E	22° 7' 38.360" N
P-12	83° 1' 46.911" E	22° 7' 49.567" N
P-13	83° 2' 4.084" E	22° 8' 9.077" N
P-14	83° 1' 53.362" E	22° 8' 15.242" N
P-15	83° 1' 45.281" E	22° 8' 18.875" N
P-16	83° 1' 36.823" E	22° 8' 23.471" N
P-17	83° 1' 26.927" E	22° 8' 27.575" N
P-18	83° 1' 8.423" E	22° 8' 36.651" N
P-19	83° 0' 46.069" E	22° 8' 46.495" N
P-20	83° 0' 36.316" E	22° 8' 51.219" N
P-21	83° 0' 31.070" E	22° 8' 46.022" N
P-22	83° 0' 25.361" E	22° 8' 48.430" N
P-23	83° 0' 17.795" E	22° 8' 52.203" N
P-24	82° 59' 59.925" E	22° 9' 0.249" N
P-25	82° 59' 54.809" E	22° 9' 2.420" N
P-26	82° 59' 40.560" E	22° 9' 10.315" N
P-27	82° 59' 34.030" E	22° 9' 13.785" N
P-28	82° 59' 28.697" E	22° 9' 15.334" N
P-29	82° 59' 22.361" E	22° 9' 17.600" N
P-30	82° 59' 17.646" E	22° 9' 20.531" N
P-31	82° 59' 18.608" E	22° 9' 29.964" N
P-32	82° 59' 20.485" E	22° 9' 50.941" N
P-33	82° 59' 21.409" E	22° 10' 0.999" N
P-34	82° 59' 22.283" E	22° 10' 7.717" N
P-35	82° 59' 24.542" E	22° 10' 34.831" N
P-36	82° 59' 25.248" E	22° 10' 42.252" N