PURUNGA COAL BLOCK SUMMARY

PART A

Sr.	Features	Details
1.	**Location**	
	Coal Block	**Purunga**
	Latitude	22° 17' 59" N - 22° 19' 48" N (Provisional)
	Longitude	83° 09' 06" E - 83° 10' 51" E (Provisional)
	Topo Sheet No.	64 N/3
	Coalfield	Mand Raigarh
	Villages	Purunga, Kokdar, Taraf Manjali, Samarsingha
	Tehsil/Taluka	Udaipur
	District	Raigarh
	State	Chhattisgarh
2.	**Connectivity with Block**	
	Nearest Rail Head	-
	Road	Purunga block is situated at about 25 km towards south from Dharamjaigarh. Exploration block is connected by very recently upgraded all weather tar road constructed under Pradhan Mantri Gramya Sadak Yojana scheme from Amapali (12 km from Dharamjaygarh on Dharamjaygarh – Raigarh Road) to Bojia village.
	Airport	-
3.	**Area**	
	Geological Block Area	8.7 sq.km. (As per shapefile)
	Green Cover %	Approx. % (As per FSI)
	Non-Forest Area	Approx. %
4.	**Climate and Topography**	
	Average Annual Rainfall	53 cm
	Temperature (Min. — Max.)	4°C-49°C
	Local Surface Drainage Channels	Kopar nala is the prominent stream flowing from east to west in the northern part of the exploration block. The stream is fed by springs of adjoining Kamthi Hill range, and 3 check dams. The aforesaid stream is a tributary to the Mand River flowing from north to south. Mand river is the main drainage of the western part of the Mand Raigarh Coalfield.

	Rivers	Mand River			
5.	**Exploration**				
	Status	Regionally Explored (G2)			
	Exploration Agency	GSI			
	Total Number of Boreholes with meterage	13 Boreholes, 7016.75 m			
	Borehole Density	Approx. 1.5 Boreholes/sq.km.			
	General Dip of Seams	Southwesterly dip of 3° to 4°			
	General Strike Direction	The general strike of the beds in the Purunga Block has been observed as N80°W-S80°E			
	Faults	4 Faults (F1 to F4) with throw ranging between 25-80m			
6.	**Coal Seams & Reserve**				
	Coal Seams/Seam Zones	Thickness Range (m)	Depth Range (m)	Geological Resources (MT)	Grade
	XIII	0.50 - 5.82	28.02-153.14		G9-G14
	XII	0.40 - 5.34	33.51-195.78		G11-G14
	XL	0.38 – 1.04	45.36-260.92		G11-G14
	X	0.30 - 2.07	48.10-309.42		G11-G14
	IXT	0.45 - 6.22	53.90-325.03		G9-G14
	IXB	0.70 - 2.06	62.40-332.31		G7-G14
	VIII	0.73 - 2.80	116.05-394.90		G4-G10
	VIIT	0.54 - 2.00	142.45-421.58		G9-G14
	VIIB	0.90 - 3.30	150.95-430.66		G6-G12
	VI	2.90 - 4.70	191.68-473.46		G9-G14
	V	0.55 - 4.51	200.68-479.37		G11-G14
	IVL	0.78	471.86-472.64		G11-G14
	IV	9.30 - 20.75	223.03-525.36		G6-G14
	III	0.52 - 3.42	256.42-558.02		G13-G14
	II	1.39 - 4.73	368.36-673.48		G7-G14
	IL	0.53 - 0.57	403.80-418.38		G11-G14
	I	1.60 - 10.04	421.00-756.36		G6-G14
	Total			**260.00 (Tentative)**	
	In addition to this, 75 Mt resources for thin seams (102.72 MT in 12 sq.km. area as per RGR)) for thin seams (0.5 m to <0.9m) have been estimated for the block.				
7.	**Surface Constraints**	Kopar Nala forms the northern boundary of the block.			
8.	**Grade of the block**	G9 (Provisional) based on weighted average grade as per data available in regional GR.			
9.	**Decision Support System (DSS) Analysis**	Hydrology Info: The polygon touches wetland more than 10 hectare area -Reservoirs (23.25Ha) Wildlife Info: The polygon touches Wildlife Habitat(s).-Sloth Bear, Elephant.			

10.	**Eco Sensitive Zone (ESZ) Analysis**	Draft boundary of Lemru Elephant Reserve is approx 12.6 km north of the block.
11.	**CBA Overlap**	-

Note:

1. The above data is compiled from Geological Report, Mining Plan and the data furnished by the prior allottee in Annexure-I/II, as available. For clarifications with regard to above data, please refer aforesaid source documents.

2. The boundary of the block has been taken from GR after conversion to WGS84 system by feature matching. The block boundary is provisional and the cardinal points, bounding co-ordinates are approximate.

3. There is a difference in area in the shape file and GR. Area in the shape file is based on feature mapped plan of the block as given in the GR. So, the area is tentative and field DGPS survey is required to ascertain the exact area.

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 update 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.

Purunga Block, Mand Raigarh Coalfield

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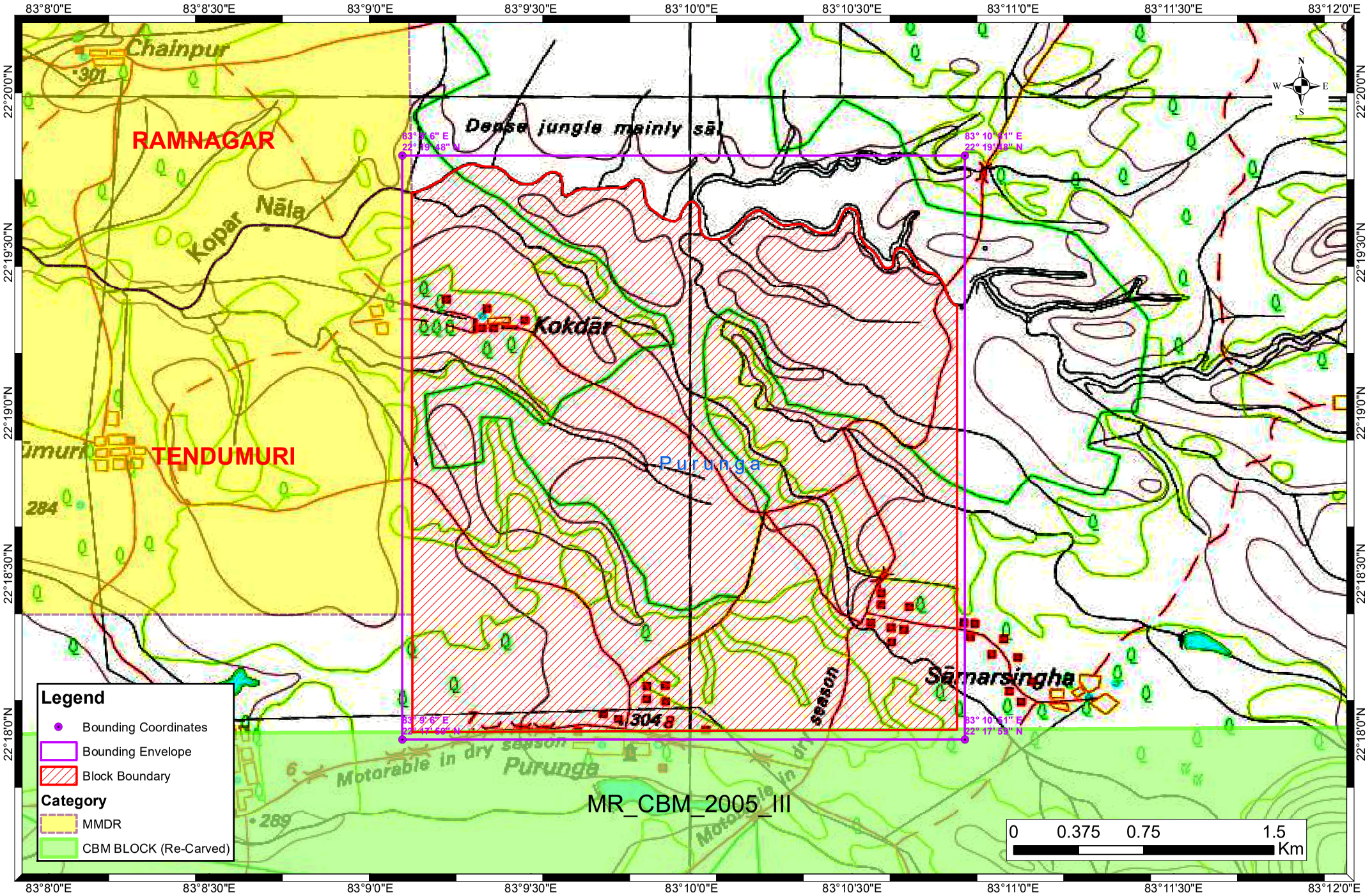

Note: Data is in WGS84 coordinate system.

Provisional Cardinal Points for Purunga Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-1	83° 10' 16.496" E	22° 19' 35.157" N
P-2	83° 10' 17.387" E	22° 19' 34.951" N
P-3	83° 10' 18.549" E	22° 19' 35.123" N
P-4	83° 10' 19.834" E	22° 19' 35.208" N
P-5	83° 10' 20.690" E	22° 19' 35.208" N
P-6	83° 10' 21.933" E	22° 19' 34.523" N
P-7	83° 10' 23.089" E	22° 19' 33.881" N
P-8	83° 10' 23.988" E	22° 19' 33.538" N
P-9	83° 10' 25.659" E	22° 19' 33.581" N
P-10	83° 10' 26.815" E	22° 19' 34.223" N
P-11	83° 10' 27.329" E	22° 19' 35.294" N
P-12	83° 10' 27.929" E	22° 19' 36.622" N
P-13	83° 10' 28.486" E	22° 19' 37.650" N
P-14	83° 10' 28.914" E	22° 19' 38.078" N
P-15	83° 10' 29.685" E	22° 19' 38.164" N
P-16	83° 10' 30.627" E	22° 19' 37.821" N
P-17	83° 10' 31.055" E	22° 19' 37.050" N
P-18	83° 10' 31.055" E	22° 19' 35.894" N
P-19	83° 10' 31.270" E	22° 19' 34.309" N
P-20	83° 10' 31.441" E	22° 19' 33.024" N
P-21	83° 10' 32.212" E	22° 19' 31.739" N
P-22	83° 10' 32.811" E	22° 19' 31.054" N
P-23	83° 10' 33.625" E	22° 19' 30.411" N
P-24	83° 10' 34.782" E	22° 19' 29.127" N
P-25	83° 10' 35.296" E	22° 19' 28.056" N
P-26	83° 10' 36.024" E	22° 19' 27.071" N
P-27	83° 10' 36.795" E	22° 19' 26.985" N
P-28	83° 10' 37.566" E	22° 19' 27.371" N
P-29	83° 10' 37.608" E	22° 19' 28.056" N
P-30	83° 10' 37.737" E	22° 19' 29.212" N
P-31	83° 10' 37.994" E	22° 19' 30.155" N
P-32	83° 10' 38.379" E	22° 19' 30.668" N
P-33	83° 10' 39.193" E	22° 19' 30.711" N
P-34	83° 10' 40.307" E	22° 19' 30.326" N
P-35	83° 10' 41.206" E	22° 19' 29.212" N
P-36	83° 10' 42.106" E	22° 19' 28.141" N
P-37	83° 10' 42.834" E	22° 19' 26.899" N
P-38	83° 10' 43.862" E	22° 19' 26.300" N
P-39	83° 10' 45.404" E	22° 19' 25.957" N
P-40	83° 10' 46.517" E	22° 19' 24.972" N
P-41	83° 10' 47.331" E	22° 19' 23.601" N
P-42	83° 10' 47.502" E	22° 19' 22.359" N
P-43	83° 10' 48.487" E	22° 19' 20.903" N
P-44	83° 10' 49.087" E	22° 19' 20.132" N
P-45	83° 10' 49.550" E	22° 19' 20.132" N
P-46	83° 10' 49.553" E	22° 18' 0.841" N
P-47	83° 9' 11.512" E	22° 18' 0.382" N

P-48	83° 9' 9.212" E	22° 18' 0.371" N
P-49	83° 9' 7.882" E	22° 18' 0.365" N
P-50	83° 9' 7.860" E	22° 18' 22.509" N
P-51	83° 9' 7.775" E	22° 19' 41.025" N
P-52	83° 9' 9.078" E	22° 19' 41.311" N
P-53	83° 9' 10.877" E	22° 19' 42.125" N
P-54	83° 9' 13.318" E	22° 19' 43.495" N
P-55	83° 9' 15.417" E	22° 19' 44.994" N
P-56	83° 9' 16.744" E	22° 19' 45.808" N
P-57	83° 9' 18.115" E	22° 19' 46.279" N
P-58	83° 9' 19.443" E	22° 19' 46.365" N
P-59	83° 9' 20.556" E	22° 19' 46.108" N
P-60	83° 9' 21.541" E	22° 19' 45.936" N
P-61	83° 9' 22.912" E	22° 19' 45.936" N
P-62	83° 9' 23.811" E	22° 19' 45.765" N
P-63	83° 9' 24.582" E	22° 19' 45.465" N
P-64	83° 9' 25.182" E	22° 19' 44.866" N
P-65	83° 9' 26.167" E	22° 19' 44.009" N
P-66	83° 9' 27.109" E	22° 19' 43.367" N
P-67	83° 9' 27.966" E	22° 19' 42.767" N
P-68	83° 9' 29.679" E	22° 19' 42.681" N
P-69	83° 9' 30.750" E	22° 19' 42.895" N
P-70	83° 9' 31.992" E	22° 19' 43.838" N
P-71	83° 9' 33.148" E	22° 19' 44.737" N
P-72	83° 9' 34.305" E	22° 19' 44.994" N
P-73	83° 9' 35.461" E	22° 19' 44.566" N
P-74	83° 9' 35.804" E	22° 19' 43.409" N
P-75	83° 9' 35.890" E	22° 19' 42.296" N
P-76	83° 9' 35.975" E	22° 19' 41.011" N
P-77	83° 9' 36.361" E	22° 19' 40.540" N
P-78	83° 9' 36.960" E	22° 19' 40.540" N
P-79	83° 9' 38.459" E	22° 19' 41.396" N
P-80	83° 9' 39.830" E	22° 19' 41.868" N
P-81	83° 9' 40.858" E	22° 19' 41.739" N
P-82	83° 9' 42.871" E	22° 19' 41.868" N
P-83	83° 9' 44.970" E	22° 19' 41.953" N
P-84	83° 9' 46.212" E	22° 19' 42.039" N
P-85	83° 9' 47.325" E	22° 19' 42.167" N
P-86	83° 9' 48.268" E	22° 19' 42.638" N
P-87	83° 9' 48.867" E	22° 19' 43.238" N
P-88	83° 9' 49.595" E	22° 19' 43.495" N
P-89	83° 9' 50.281" E	22° 19' 43.409" N
P-90	83° 9' 50.795" E	22° 19' 42.938" N
P-91	83° 9' 51.094" E	22° 19' 42.381" N
P-92	83° 9' 51.266" E	22° 19' 41.439" N
P-93	83° 9' 51.394" E	22° 19' 40.454" N
P-94	83° 9' 51.608" E	22° 19' 39.169" N
P-95	83° 9' 52.251" E	22° 19' 38.227" N
P-96	83° 9' 53.193" E	22° 19' 37.499" N
P-97	83° 9' 54.564" E	22° 19' 36.471" N

P-98	83° 9' 55.720" E	22° 19' 35.957" N
P-99	83° 9' 56.791" E	22° 19' 35.657" N
P-100	83° 9' 57.647" E	22° 19' 36.171" N
P-101	83° 9' 58.404" E	22° 19' 37.932" N
P-102	83° 9' 59.021" E	22° 19' 38.755" N
P-103	83° 9' 59.672" E	22° 19' 39.372" N
P-104	83° 10' 0.186" E	22° 19' 39.406" N
P-105	83° 10' 0.769" E	22° 19' 39.132" N
P-106	83° 10' 1.146" E	22° 19' 38.549" N
P-107	83° 10' 1.522" E	22° 19' 38.001" N
P-108	83° 10' 1.522" E	22° 19' 37.076" N
P-109	83° 10' 1.488" E	22° 19' 36.185" N
P-110	83° 10' 1.488" E	22° 19' 35.054" N
P-111	83° 10' 1.728" E	22° 19' 33.992" N
P-112	83° 10' 2.071" E	22° 19' 33.170" N
P-113	83° 10' 2.722" E	22° 19' 32.724" N
P-114	83° 10' 3.578" E	22° 19' 32.382" N
P-115	83° 10' 5.052" E	22° 19' 32.416" N
P-116	83° 10' 6.422" E	22° 19' 32.793" N
P-117	83° 10' 7.656" E	22° 19' 33.821" N
P-118	83° 10' 9.575" E	22° 19' 35.911" N
P-119	83° 10' 11.048" E	22° 19' 37.144" N
P-120	83° 10' 12.007" E	22° 19' 37.727" N
P-121	83° 10' 12.898" E	22° 19' 37.727" N
P-122	83° 10' 14.303" E	22° 19' 36.939" N
P-123	83° 10' 15.605" E	22° 19' 35.911" N