

Ghogharpalli & Its Dip Extension Block Summary

PART A

Sr. No.	Features	Details
1.	Location	
	Coal Block	Ghogharpalli & Its Dip Extension
	Latitude	N 22° 03'07" – 22° 06'07" N (Provisional)
	Longitude	E 83° 37'00" – 83° 39'43" E (Provisional)
	Topo Sheet No.	64N/12 (R.F 1:50,000) & 64N/12SE-1 and 64N/12SW-3 (R.F.1:10,000)
	Coalfield	IB Valley Coalfield
	Villages	Ghogharpalli, Latapani,, Bhograkachhar, Rengalpani, Munderkhet
	Tehsil/Taluka	Sundargarh
	District	Sundargarh
	State	Odisha
2.	Connectivity with Block	
	Nearest Rail Head	Hemgir is the nearest railway station located on the Mumbai-Howrah main line and is 37 km away from the block.
	Road	The block is well connected by road. The Sundergarh (Odisha) – Raigarh (Chhatisgarh) all weathered road passes through south of the block. The Sundergarh and Raigarh townships are located at a distance of around 50 km and 40 km respectively from the block. The block is also connected by black top road with two important towns of Odisha namely Rourkela and Jharsuguda at about 150 and 80 km respectively away from the block. In addition, there are existence of 3 to 4 no. of kutchra and pucca roads passing through the block.
	Airport	-
3.	Area	
	Geological Block Area	14.36 Sq. Km. (As per shape file, refer note below)
	Green Cover	Approx. 18% (As per FSI Map)
	Non-Forest Area	Approx. 82% (As per FSI Map)
4.	Climate and Topography	
	Average Annual Rainfall	1500 mm
	Temperature (Min. — Max.)	During summer (March – May) the temperature varies from 13°C to 40°C which even reaches up to 47°C during the extreme summer. In winter (December – February) the temperature varies from 9°C to 33°C.

	Local Surface Drainage Channels	Budajhodia Nala with downstream towards east flows in the north central part of the block which joins to main Basundhara River in east, Basundhara River connects the drainage system of the whole Gopalpur track and ultimately joins with the IB River in between Jharsuguda and Brajraganagar in the eastern part of the coalfield.			
	Rivers	Basundhara River			
5.	Exploration				
	Status	Explored			
	Exploration Agency	CMPDI			
	Total Number of Boreholes with meterage	161 boreholes & 43646.75 m			
	Borehole Density	11.21 boreholes/sqkm			
	General Dip of Seams	Varies from 3° to 7° towards South to Southwest.			
	General Strike Direction	WNW-ESE TO E-W.			
	Faults	7 faults consisting from F1-F1 to F7-F7 with F2-F2 having the highest throw of 30-45 m & F7-F7 has the lowest throw of 5m.			
6.	Coal Seams & Resources				
	Coal Seams	Thickness Range (m)	Depth Range (m)	Resources (MT)	Grade
	LOCAL	0.11-2.68	12.28-105.50	0.880	G13-G17
	LAJKURA IV	1.70-12.60	21.71-204.73	84.013	G11-G15
	LAJKURA III	0.42-3.60	8.62-227.26	24.624	G10-G16
	LAJ II TOP 3	0.08-2.07	11.61-233.20	1.461	G10-G15
	LAJ II TOP 2	0.18-0.75	10.65-239.0	0.00	-
	LAJ II TOP 1 TOP	7.14-16.89	15.60-203.58	99.328	G8-G13
	LAJ II TOP 1	5.24-22.34	9.77-249.71	82.674	G9-G13
	LAJ II TOP 1 BOT	2.22-9.15	25.21-217.13	59.416	G10-G14
	LAJ II BOT	1.92-8.99	18.70-271.52	62.762	G12-G16
	LAJ1+LAJ 2 BOT	8.50-17.53	14.07-227.28	67.277	G12-G16
	LAJKURA I	2.90-8.68	8.93-278.15	55.779	G10-G15
	RAMPUR V	0.10-6.87	32.51-332.20	63.492	G7-G17
	RAM IV & V COMB.	5.63-15.32	47.58-244.10	11.669	G11-G16
	RAMPUR IV	0.33-9.82	38.40-339.33	71.530	G9-G17
	RAM IV B	0.10-5.17	51.96-346.37	14.659	G9-G16
	RAM III TOP	0.82-4.85	74.82-369.02	57.729	G8-G17
	RAM III BOT	0.92-7.06	91.00-373.16	66.742	G9-G15
	RAM (1+2)+RAM III BOT	16.45-24.29	79.30-183.75	50.447	G9-G12
	RAM (2+1) COMB	2.75-17.77	95.73-405.40	144.179	G5-G14
	IB TOP	2.14-20.92	114.80-446.61	254.118	G3-G17

	IB BOT	0.22-5.54	165.40-464.46	15.505	G3-G17
	Total			1288.284	
7.	Surface Constraints	NA			
8.	Grade of coal	G11 (Provisional) based on weighted average grade of adjacent blocks.			
9.	Decision Support System (DSS) Analysis	Wildlife info: The polygon touches Wildlife Habitat(s)- Sloth Bear			
10.	Eco Sensitive Zone (ESZ) Analysis	Approx. 53 km to boundary of Unnotified Lemru Elephant reserve Corridor in north-western direction, 42 km to boundary of ESZ (Sambalpur Elephant Region) in -eastern direction and 34 km to boundary of ESZ (Debigarh) in southern direction.			

PART B

Sr. No.	Features	Details
1	Tentative Peak rated Capacity	20 Mty

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.
4. The summary has been compiled from “**Geological Report on The Ghogarpalli & Its Dip Extension block, Ib Valley Coalfield, District-Sundargarh (Odisha)**” CMPDI, Dec-2019.
5. The geological block boundary has been revised with respect to ORSAC surveyed boundary of Bijahan CMSP block in the west.

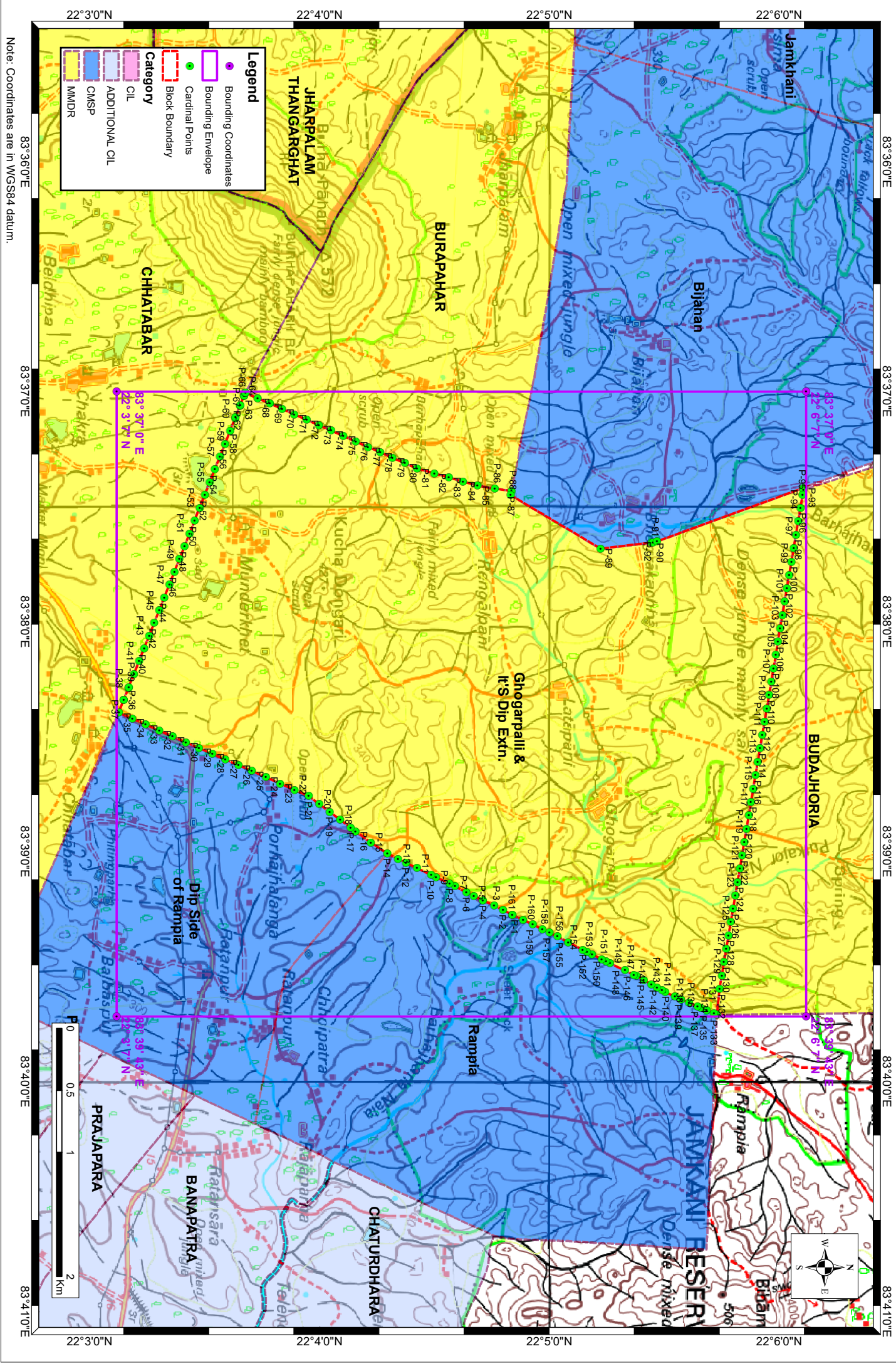
Disclaimer:

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.

Ghogharpalli & Its Dip Extension Block, Ib Valley Coalfield

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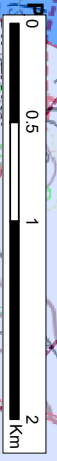


Legend

- Bounding Coordinates
- Bounding Envelope
- Cardinal Points
- Block Boundary

Category

- CIL
- ADDITIONAL CIL
- CMSP
- MMDR



Note: Coordinates are in WGS84 datum.

Provisional Cardinal Points for Ghogharpalli and Its Dip Extension Block		
POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-1	83° 39' 16.419" E	22° 4' 50.282" N
P-2	83° 39' 15.182" E	22° 4' 47.815" N
P-3	83° 39' 14.097" E	22° 4' 45.558" N
P-4	83° 39' 12.671" E	22° 4' 42.613" N
P-5	83° 39' 11.562" E	22° 4' 40.213" N
P-6	83° 39' 10.605" E	22° 4' 38.323" N
P-7	83° 39' 9.034" E	22° 4' 35.330" N
P-8	83° 39' 8.307" E	22° 4' 33.949" N
P-9	83° 39' 6.654" E	22° 4' 30.382" N
P-10	83° 39' 6.064" E	22° 4' 29.094" N
P-11	83° 39' 4.314" E	22° 4' 25.407" N
P-12	83° 39' 2.907" E	22° 4' 22.513" N
P-13	83° 39' 1.871" E	22° 4' 20.476" N
P-14	83° 39' 0.470" E	22° 4' 17.654" N
P-15	83° 38' 57.608" E	22° 4' 13.335" N
P-16	83° 38' 54.662" E	22° 4' 9.339" N
P-17	83° 38' 53.716" E	22° 4' 8.052" N
P-18	83° 38' 51.664" E	22° 4' 5.327" N
P-19	83° 38' 49.613" E	22° 4' 2.601" N
P-20	83° 38' 47.562" E	22° 3' 59.875" N
P-21	83° 38' 45.511" E	22° 3' 57.150" N
P-22	83° 38' 43.862" E	22° 3' 53.416" N
P-23	83° 38' 42.214" E	22° 3' 49.683" N
P-24	83° 38' 40.566" E	22° 3' 45.950" N
P-25	83° 38' 38.917" E	22° 3' 42.217" N
P-26	83° 38' 37.428" E	22° 3' 38.790" N
P-27	83° 38' 35.938" E	22° 3' 35.363" N
P-28	83° 38' 34.448" E	22° 3' 31.936" N
P-29	83° 38' 32.959" E	22° 3' 28.509" N
P-30	83° 38' 31.469" E	22° 3' 25.082" N
P-31	83° 38' 29.918" E	22° 3' 21.578" N
P-32	83° 38' 28.366" E	22° 3' 18.074" N
P-33	83° 38' 26.815" E	22° 3' 14.570" N
P-34	83° 38' 25.263" E	22° 3' 11.065" N
P-35	83° 38' 23.712" E	22° 3' 7.561" N
P-36	83° 38' 20.503" E	22° 3' 8.830" N
P-37	83° 38' 20.374" E	22° 3' 8.881" N
P-38	83° 38' 17.293" E	22° 3' 10.100" N
P-39	83° 38' 17.037" E	22° 3' 10.202" N
P-40	83° 38' 13.699" E	22° 3' 11.522" N
P-41	83° 38' 10.361" E	22° 3' 12.842" N
P-42	83° 38' 7.023" E	22° 3' 14.162" N
P-43	83° 38' 3.686" E	22° 3' 15.483" N
P-44	83° 38' 0.348" E	22° 3' 16.803" N
P-45	83° 37' 57.010" E	22° 3' 18.123" N
P-46	83° 37' 53.672" E	22° 3' 19.443" N

Provisional Cardinal Points for Ghogharpalli and Its Dip Extension Block		
POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-47	83° 37' 50.334" E	22° 3' 20.763" N
P-48	83° 37' 46.997" E	22° 3' 22.083" N
P-49	83° 37' 43.659" E	22° 3' 23.403" N
P-50	83° 37' 40.321" E	22° 3' 24.724" N
P-51	83° 37' 36.983" E	22° 3' 26.044" N
P-52	83° 37' 33.645" E	22° 3' 27.364" N
P-53	83° 37' 30.307" E	22° 3' 28.684" N
P-54	83° 37' 26.969" E	22° 3' 30.004" N
P-55	83° 37' 23.631" E	22° 3' 31.324" N
P-56	83° 37' 20.293" E	22° 3' 32.644" N
P-57	83° 37' 16.955" E	22° 3' 33.964" N
P-58	83° 37' 13.617" E	22° 3' 35.283" N
P-59	83° 37' 10.279" E	22° 3' 36.603" N
P-60	83° 37' 6.941" E	22° 3' 37.923" N
P-61	83° 37' 6.684" E	22° 3' 38.025" N
P-62	83° 37' 3.603" E	22° 3' 39.243" N
P-63	83° 37' 3.474" E	22° 3' 39.294" N
P-64	83° 37' 1.081" E	22° 3' 40.240" N
P-65	83° 37' 1.021" E	22° 3' 40.264" N
P-66	83° 37' 0.265" E	22° 3' 40.563" N
P-67	83° 37' 0.302" E	22° 3' 40.647" N
P-68	83° 37' 1.679" E	22° 3' 43.766" N
P-69	83° 37' 3.093" E	22° 3' 46.969" N
P-70	83° 37' 4.507" E	22° 3' 50.172" N
P-71	83° 37' 5.921" E	22° 3' 53.375" N
P-72	83° 37' 7.336" E	22° 3' 56.579" N
P-73	83° 37' 8.750" E	22° 3' 59.782" N
P-74	83° 37' 10.164" E	22° 4' 2.985" N
P-75	83° 37' 11.579" E	22° 4' 6.188" N
P-76	83° 37' 12.993" E	22° 4' 9.391" N
P-77	83° 37' 14.407" E	22° 4' 12.594" N
P-78	83° 37' 15.822" E	22° 4' 15.797" N
P-79	83° 37' 17.236" E	22° 4' 19.000" N
P-80	83° 37' 18.651" E	22° 4' 22.203" N
P-81	83° 37' 20.065" E	22° 4' 25.406" N
P-82	83° 37' 21.307" E	22° 4' 29.917" N
P-83	83° 37' 22.383" E	22° 4' 33.674" N
P-84	83° 37' 23.458" E	22° 4' 37.430" N
P-85	83° 37' 24.533" E	22° 4' 41.187" N
P-86	83° 37' 25.257" E	22° 4' 45.715" N
P-87	83° 37' 25.951" E	22° 4' 50.056" N
P-88	83° 37' 26.964" E	22° 4' 49.850" N
P-89	83° 37' 40.968" E	22° 5' 13.309" N
P-90	83° 37' 39.356" E	22° 5' 26.624" N
P-91	83° 37' 39.288" E	22° 5' 27.006" N
P-92	83° 37' 39.112" E	22° 5' 28.002" N

Provisional Cardinal Points for Ghogharpalli and Its Dip Extension Block		
POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-93	83° 37' 25.078" E	22° 6' 6.335" N
P-94	83° 37' 25.542" E	22° 6' 6.253" N
P-95	83° 37' 26.891" E	22° 6' 6.053" N
P-96	83° 37' 30.375" E	22° 6' 5.467" N
P-97	83° 37' 33.859" E	22° 6' 4.881" N
P-98	83° 37' 37.344" E	22° 6' 4.296" N
P-99	83° 37' 40.828" E	22° 6' 3.710" N
P-100	83° 37' 44.312" E	22° 6' 3.125" N
P-101	83° 37' 47.796" E	22° 6' 2.539" N
P-102	83° 37' 51.280" E	22° 6' 1.953" N
P-103	83° 37' 54.764" E	22° 6' 1.368" N
P-104	83° 37' 58.248" E	22° 6' 0.782" N
P-105	83° 38' 1.733" E	22° 6' 0.196" N
P-106	83° 38' 5.217" E	22° 5' 59.610" N
P-107	83° 38' 8.701" E	22° 5' 59.025" N
P-108	83° 38' 12.185" E	22° 5' 58.439" N
P-109	83° 38' 15.669" E	22° 5' 57.853" N
P-110	83° 38' 19.153" E	22° 5' 57.267" N
P-111	83° 38' 22.637" E	22° 5' 56.681" N
P-112	83° 38' 26.121" E	22° 5' 56.096" N
P-113	83° 38' 29.605" E	22° 5' 55.510" N
P-114	83° 38' 33.089" E	22° 5' 54.924" N
P-115	83° 38' 36.573" E	22° 5' 54.338" N
P-116	83° 38' 40.057" E	22° 5' 53.752" N
P-117	83° 38' 43.541" E	22° 5' 53.166" N
P-118	83° 38' 47.025" E	22° 5' 52.580" N
P-119	83° 38' 50.509" E	22° 5' 51.994" N
P-120	83° 38' 53.993" E	22° 5' 51.408" N
P-121	83° 38' 57.477" E	22° 5' 50.822" N
P-122	83° 39' 0.961" E	22° 5' 50.236" N
P-123	83° 39' 4.445" E	22° 5' 49.649" N
P-124	83° 39' 7.929" E	22° 5' 49.063" N
P-125	83° 39' 11.413" E	22° 5' 48.477" N
P-126	83° 39' 14.897" E	22° 5' 47.891" N
P-127	83° 39' 18.381" E	22° 5' 47.305" N
P-128	83° 39' 21.865" E	22° 5' 46.718" N
P-129	83° 39' 25.349" E	22° 5' 46.132" N
P-130	83° 39' 28.833" E	22° 5' 45.546" N
P-131	83° 39' 32.317" E	22° 5' 44.960" N
P-132	83° 39' 35.801" E	22° 5' 44.373" N
P-133	83° 39' 39.285" E	22° 5' 43.787" N
P-134	83° 39' 42.769" E	22° 5' 43.201" N
P-135	83° 39' 46.253" E	22° 5' 42.615" N
P-136	83° 39' 49.737" E	22° 5' 42.029" N
P-137	83° 39' 53.221" E	22° 5' 41.443" N
P-138	83° 39' 56.705" E	22° 5' 40.857" N

Provisional Cardinal Points for Ghogharpalli and Its Dip Extension Block		
POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-139	83° 39' 38.466" E	22° 5' 34.363" N
P-140	83° 39' 37.739" E	22° 5' 32.708" N
P-141	83° 39' 36.632" E	22° 5' 30.202" N
P-142	83° 39' 36.158" E	22° 5' 29.362" N
P-143	83° 39' 35.444" E	22° 5' 28.051" N
P-144	83° 39' 34.613" E	22° 5' 26.577" N
P-145	83° 39' 33.482" E	22° 5' 24.558" N
P-146	83° 39' 32.399" E	22° 5' 22.617" N
P-147	83° 39' 32.101" E	22° 5' 21.966" N
P-148	83° 39' 30.974" E	22° 5' 19.651" N
P-149	83° 39' 29.077" E	22° 5' 15.732" N
P-150	83° 39' 28.574" E	22° 5' 14.712" N
P-151	83° 39' 28.054" E	22° 5' 13.615" N
P-152	83° 39' 26.816" E	22° 5' 11.093" N
P-153	83° 39' 26.181" E	22° 5' 9.752" N
P-154	83° 39' 25.626" E	22° 5' 8.672" N
P-155	83° 39' 23.666" E	22° 5' 4.901" N
P-156	83° 39' 22.098" E	22° 5' 2.025" N
P-157	83° 39' 21.126" E	22° 4' 59.982" N
P-158	83° 39' 20.203" E	22° 4' 58.116" N
P-159	83° 39' 18.989" E	22° 4' 55.639" N
P-160	83° 39' 17.769" E	22° 4' 53.111" N
P-161	83° 39' 16.419" E	22° 4' 50.282" N

Note: The provisional cardinal points are in WGS84 coordinate system. These points are extracted through ArcGIS software after georeferencing of block boundary and onground DGPS survey is required to ascertain the exact location of the points.