

NORTH OF ARKHAPAL SRIRAMPUR COAL BLOCK SUMMARY
[North of Arkhapal Srirampur (Northern & Southern Part)]

PART A

Sl. No.	Features	Details
1. Location		
	Coal Block	North of Arkhapal Srirampur (North of Arkhapal Srirampur Northern & Southern Part Combined)
	Latitude	20° 59' 06" N - 21° 01' 54" N (Provisional)
	Longitude	85° 08' 35" E - 85° 11' 49" E (Provisional)
	Topo Sheet No.	F45N4 & F45T1 (RF 1:50,000)
	Coalfield	Talcher
	Villages	Hariharpur Rayati, Dumduma, Gopabalhabpur, Brajnathpur, Radharamanpur, Rangapur, Luhundi, Arakhapal, Jadunathpur, Sarkishorepal, Biraramchandrapur, Kanteikolia, Kalandiprasad
	Tehsil/Taluka	Talcher
	District	Angul
	State	Odisha
2. Connectivity with Block		
	Nearest Rail Head	The nearest railway station is Talcher on Cuttack-Sambalpur line of East-Coast railway and is about 13 kms from the block.
	Road	District headquarter Angul, located on the National Highway 55 (Bhubaneswar-Cuttack-Angul to Sambalpur), is the nearest district town at a distance of about 29 kms (by road) from the centre of the block via NH 149/NH 53. The NH 149 passes across the eastern part of the block connecting Banarpal-Talcher-Samal-Pallarhara. Pallarhara, in turn, is connected to Rourkela through NH 143.
	Airport and Seaport	The Biju Pattanaik Airport, located at the state capital Bhubaneswar, is nearest airport from this Northern Part of North of Arkhapal block. The nearest port is Paradip at the Bay of Bengal and is situated at a distance of about 215 kms from the block.
3. Area		
	Geological Block Area	19.46 sq.km. (As per Shapefile, Refer Note-3)
	Forest Area	Approx. 27 % (As per FSI plan)
	Non-Forest Area	Approx. 73 % (As per FSI plan)
4. Climate and Topography		
	Average Annual Rainfall	758 mm – 1588 mm
	Temperature (Min. — Max.)	6.7°C to 38.1°C
	Local Surface Drainage Channels	The main drainage system of the area is controlled by the southerly flowing Brahamani River passing through eastern extremity of the coalfield which is about 6 km from the block. Bangaru jhor flowing towards east forms a part of Southern boundary of the block under report.
	Rivers	-
5. Exploration		
	Status	Explored
	Exploration Agency	MECL, GSI, SGPL, CMPDI & SETSPL (Strategic Energy Technology Systems Private Limited)
	Total Number of Boreholes with	Northern Part: 117 Boreholes; 35038.80 m (MECL: 107 Boreholes, 30918.00 m and GSI: 6 Boreholes, 1965.80 m, SGPL: 4 Boreholes,

meterage	2155.00 m). Southern Part: 107 Boreholes; 24975.70 m Total: 224 Boreholes, 60014.5m
Borehole Density	Approx. 11.5 Boreholes/sq.km.
General Dip of Seams	The dip is towards north & north east varying around 6°-7°.
General Strike Direction	Strike is generally E-W with local variations.
Faults	The block is traversed by 14 faults viz., F1-F1 to F13-F13 & F3A- F3A having varying throw from 0 to 150m.

6. Coal Seams & Reserve (Northern Part)

Coal Seams	Thickness Range (m)	Depth Range (m)	Geological Resources (MT)	Grade
XVI	0.12-1.23	25.66-187.28	0.584	G15-UG
XV	1.00-11.65	10.70-205.60	27.875	G9-UG
XIV	0.34-2.04	15.70-225.61	7.682	G10-G17
XIII	0.11-3.89	11.45-242.10	9.238	G8-UG
LOCAL-5	0.16-1.00	72.76-273.42	0.00	UG
LOCAL-4	0.26-0.82	29.96-267.83	0.00	-
LOCAL-3	0.51-1.74	24.37-285.78	0.00	G11-G13
XII	0.15-3.70	17.10-314.85	12.376	G6-UG
XI	0.23-5.95	17.37-348.48	33.720	G9-UG
X	0.10-3.97	6.20-353.53	15.818	G9-G17
IX	0.15-4.37	22.64-356.62	16.861	G11-UG
VIII	0.10-3.41	19.59-359.00	14.869	G9-UG
VII	0.38-9.19	26.01-368.95	63.689	G7-G17
VI C	0.35-6.30	11.86-383.00	17.950	G12-UG
VI B	0.24-8.13	20.04-387.74	42.960	G9-UG
VI A	0.25-7.59	17.95-393.41	35.673	G9-UG
V C	0.23-4.51	43.80-377.75	12.009	G12-UG
V B	0.16-8.07	45.65-380.00	11.537	G13-UG
V (B+C)	3.11-7.28	121.89-186.27	3.981	G13-G17
V A	0.36-7.06	51.65-420.52	38.990	G12-G17
LOCAL-2	0.20-2.91	68.50-281.00	38.508	G8-G17
IV C	0.11-3.07	153.99-444.50	7.551	G11-G15
IV B	0.30-4.83	159.97-454.28	13.800	G7-G17
IV (B+C)	4.78-10.96	153.35-293.77	17.546	G11-G15
IV A	0.10-6.90	158.35-461.00	11.660	G9-G17
IV (A+B)	5.77-8.37	253.36-320.68	10.858	G12-G16
IV (A+B+C)	7.86-16.28	93.87-249.20	61.360	G9-G15
LOCAL-1	0.15-3.59	113.28-469.37	4.543	G9-G17
III D	0.29-4.46	113.96-449.00	42.350	G8-UG
III C	0.45-3.75	216.18-491.30	13.478	G9-G15
III B	0.14-4.73	228.00-494.80	4.440	G9-G17
III (B+C)	0.71-8.09	124.70-312.75	24.771	G8-G15
III (B+C+D)	9.52-12.36	130.18-239.51	11.874	G11-G14
III A	0.11-2.32	130.43-502.04	6.044	G8-G16
II F	0.14-3.64	141.53-487.88	21.981	G7-G15
II E	2.60-9.90	183.85-531.35	95.833	G9-G15
II (E+F)	10.41-12.53	252.33-293.42	6.884	G11-G12
II D	0.38-6.45	242.50-546.98	29.572	G7-G17
II (D+E+F)	14.12-20.66	239.12-274.86	9.608	G10-G12
II C	0.24-7.46	247.96-514.35	19.888	G9-UG
II (C+D)	5.80-6.95	193.45-246.59	7.544	G10-G12
II (C+D+E)	15.84-17.24	163.70-188.96	6.688	G2-G10
II B	0.14-10.76	175.43-562.90	59.780	G9-G17

	II A	0.14-4.99	180.50-450.51	15.484	G8-G16
	I A	1.29-10.50	326.09-500.00		
	I (B+C)			77.509	
	I B	0.31-4.08	289.96-501.81		
	I C	0.42-3.94	293.64-487.53		
	I D	0.76-1.36	296.71-493.05		
	I E	0.58-1.80	304.58-480.05		
	I F	0.54-1.61	309.26-472.34		
	I G	3.03-3.03	379.75- 379.75		
	I H	0.31-0.38	340.08-389.78		
	I I	0.53-0.55	356.22-403.55		
	I J	1.32-1.88	388.00-438.87		
	I K	1.94-2.82	392.24-595.62		
	Total			988.262	

7. Coal Seams & Reserve (Southern Part)

	Coal Seams	Thickness Range (m)	Depth Range (m)	Geological Resources (MT)		Grade
				Proved	Indicated	
	XV	0.24-11.65	9.45-63.70	3.206		G14-G15
	LXIV	0.01-0.98	14.65-92.14	0		
	XIV	0.03-3.00	9.21-109.48	0		
	XIII	0.10-3.77	11.28-113.90	3.066	0.976553	G14-G15
	LXII	0.01-2.65	8.56-151.00	1.147		G13
	XII	0.01-3.88	10.45-143.55	5.549	4.678962	G10-G17
	XI	0.23-4.20	9.00-153.77	7.584	3.512047	G11-G16
	X	0.01-3.75	11.00-168.45	0.431	0.527163	G12-G13
	IX	0.01-3.12	10.00-192.30	8.318	6.272879	G11-G17
	VIII	0.01-3.16	11.00-201.68	1.323	2.31579	G12-G15
	VII	1.00-8.999	6.00-220.25	33.821	21.57947	G9-G14
	VIC	0.25-3.91	12.28-239.68	2.924	1.441584	G15-G17
	VIB	0.16-7.88	12.93-241.85	14.806	13.21347	G13-G17
	VIA	0.37-7.46	6.84-248.56	21.882	18.79399	G11-G14
	LV	0.01-3.00	10.69-256.56	1.542		G17
	VC	0.15-5.30	22.20-263.80	4.763	0.736949	G6-G17
	VB	0.25-10.85	28.50-269.12	37.765	29.58803	G12-G17
	VA	0.20-5.50	29.80-275.49	20.559	17.85942	G8-G17
	LIV	0.01-2.50	48.79-284.85	5.349		G13
	IVC	0.01-4.28	63.42-286.03	12.501	9.506611	G7-G15
	IVB	0.01-12.52	67.70-288.76	132.375		G13
	IVA	0.12-4.52	77.70-300.86	11.6	11.06513	G8-G17
	IIID	0.89-6.17	91.67-312.76	22.259	10.89578	G7-G17
	IIIC	0.55-8.98	93.67-315.73	8.309		G11-G12
	IIIB	0.52-5.65	100.60-309.72	46.538		G12
	IIIA	0.10-3.40	111.28-313.28	6.558	4.597931	G9-G13
	IIF	0.46-3.51	120.59-323.93	13.885	11.39897	G7-G12
	IIE	1.47-11.80	122.79-333.11	121.099		G11
	IID	0.84-7.42	130.15-343.70	10.873		G10-G11
	IIC	0.30-6.26	134.59-345.70	8.239	12.14221	G12
	IIB	0.65-11.86	140.18-356.15	21.082		G12
	IIA	0.16-8.28	151.49-351.44	31.841	15.33323	G7-G16
	Total			621.194	196.437	
	Grand Total			817.631*		
	Grand Total for Complete Block			1805.893		

*-Estimated Reserve of North of Arkhupal Srirampur (Southern Part) block carved out from North of Arkhupal Srirampur block.

8.	Surface Constraints	NH-23 passes through the block.
9.	Grade of the block	G13 (Provisional) based on weighted average grade as per grade wise resources data available in GRs.
10.	Decision Support System (DSS) Analysis	Wildlife Info: The polygon touches Wildlife Habitat(s)- Sloth Bear, Elephant
11.	Eco Sensitive Zone (ESZ) Analysis	The tiger corridor between TRPA of Simlipal-Satkosia is approx. 3.5 kms in the N-E direction & 33 kms in the S-W direction from the block boundary. The ESZ boundary of Mahanadi_Elephant_Region located approx. 25 kms away from S-W boundary of the block

PART B

Sl. No.	Features	Details
1.	Previous Allocation	
	Name and Address of Allocatee	Strategic Energy Technology Systems Limited (SETSL)
2.	Mine Capacity as per Mining Plan	Mining Plan not available
3.	Tentative PRC	15 Mty
3.	Status of Clearances/Approvals	
	Mining Plan/ Mine Closure Plan	--
	Forest Clearance	--
	Environmental Clearance	--
	Mining Lease	--
	Land Acquisition	--
4.	No. of PAFs	--

Note:

- 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.
- 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.
- 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.
- Summary for North of Arkhapol Srirampur (Northern part) is compiled from "GEOLOGICAL REPORT ON COAL EXPLORATION, NORTHERN PART OF NORTH OF ARKHAPAL BLOCK, TALCHER COALFIELD" by CMPDI-2020 & Summary for North of Arkhapol Srirampur (Southern Part) is compiled from "GEOLOGICAL REPORT ON NORTH OF ARKHAPAL AND SRIRAMPUR BLOCK TALCHER COAL FIELD" by SETSPL.

Disclaimer:

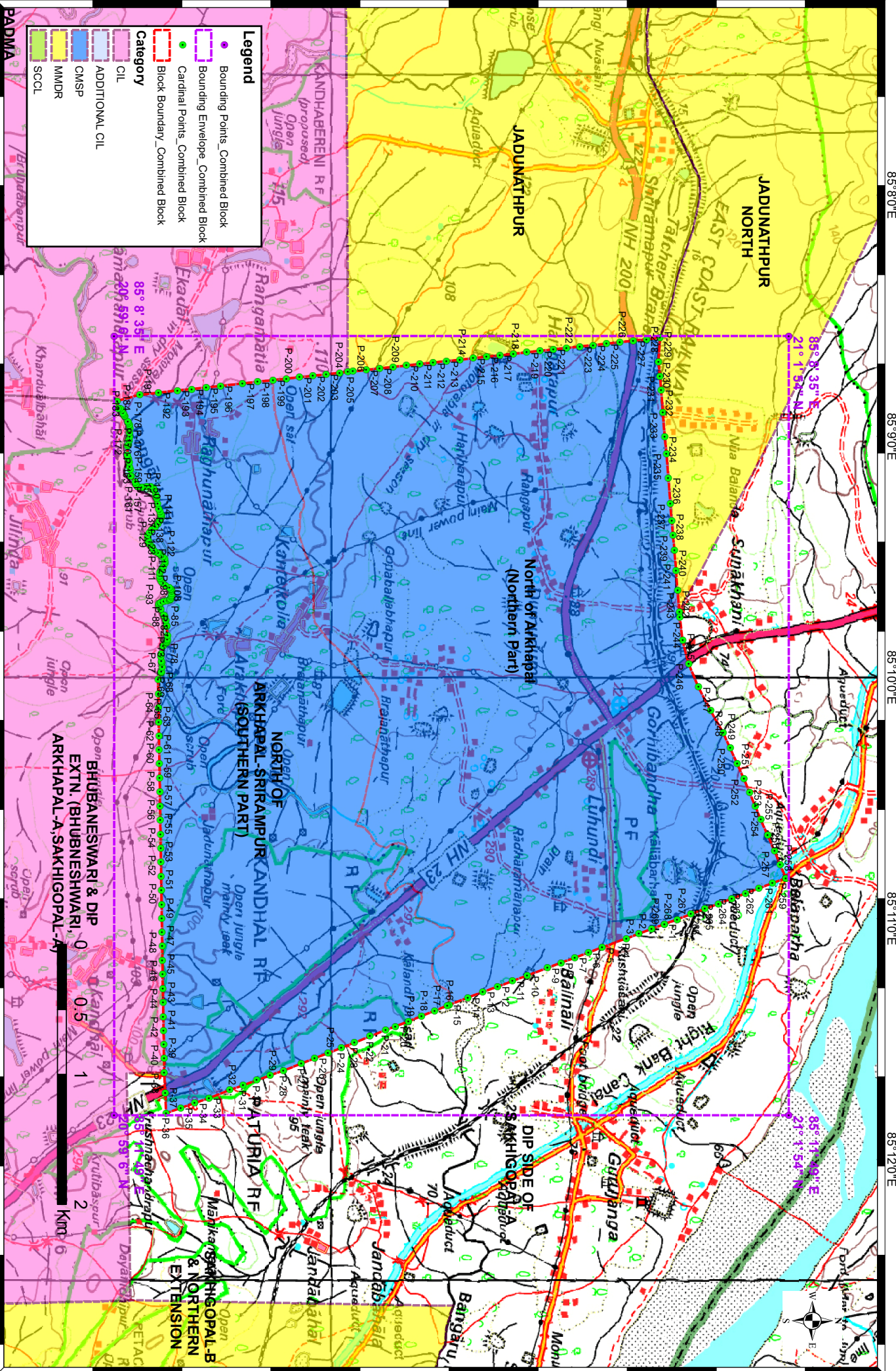
- The analysis is done on Beta-version (Trial Version) of Decision Support System (DSS) of FSI/MOEF.
- The Decision Rules for various parameters of this DSS System are controlled by FSI.
- CMPDI only runs this DSS to obtain the status of any block based on these Decision Rules.

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.

20°59'0"N 21°0'0"N 21°10'0"N 21°20'0"N

North of Arkhapaal Sritampur Block, Taleher Coalfield
(North of Arkhapaal Sritampur-Northern Part & Southern Part Combined)

FOR INTERNAL/RESTRICTED USE ONLY



Legend

- Bounding Points_Combined Block
- Bounding Envelope_Combined Block
- Cardinal Points_Combined Block
- Block Boundary_Combined Block

Category

- CIL
- ADDITIONAL CIL
- C MSP
- MMDR
- SCCL

Note: Coordinates are in WGS84 Datum.

85°8'0"E 85°9'0"E 85°10'0"E 85°11'0"E 85°12'0"E

20°59'0"N 21°0'0"N 21°10'0"N 21°20'0"N

Provisional cardinal points (in WGS84 system) for North of Arkhpal Srirampur (Combined) Block		
PointID	Longitude	Latitude
P-1	85° 11' 1.402" E	21° 1' 23.020" N
P-2	85° 11' 2.582" E	21° 1' 19.856" N
P-3	85° 11' 3.763" E	21° 1' 16.692" N
P-4	85° 11' 4.944" E	21° 1' 13.528" N
P-5	85° 11' 7.217" E	21° 1' 7.465" N
P-6	85° 11' 8.486" E	21° 1' 4.071" N
P-7	85° 11' 9.754" E	21° 1' 0.678" N
P-8	85° 11' 11.022" E	21° 0' 57.285" N
P-9	85° 11' 12.291" E	21° 0' 53.892" N
P-10	85° 11' 14.203" E	21° 0' 48.851" N
P-11	85° 11' 15.572" E	21° 0' 45.158" N
P-12	85° 11' 16.940" E	21° 0' 41.465" N
P-13	85° 11' 18.308" E	21° 0' 37.772" N
P-14	85° 11' 19.677" E	21° 0' 34.079" N
P-15	85° 11' 21.502" E	21° 0' 29.422" N
P-16	85° 11' 21.666" E	21° 0' 29.004" N
P-17	85° 11' 22.969" E	21° 0' 25.769" N
P-18	85° 11' 24.272" E	21° 0' 22.535" N
P-19	85° 11' 25.575" E	21° 0' 19.300" N
P-20	85° 11' 26.878" E	21° 0' 16.065" N
P-21	85° 11' 27.758" E	21° 0' 13.561" N
P-22	85° 11' 29.327" E	21° 0' 9.703" N
P-23	85° 11' 30.895" E	21° 0' 5.845" N
P-24	85° 11' 32.191" E	21° 0' 2.542" N
P-25	85° 11' 33.486" E	20° 59' 59.238" N
P-26	85° 11' 34.782" E	20° 59' 55.934" N
P-27	85° 11' 36.077" E	20° 59' 52.631" N
P-28	85° 11' 37.827" E	20° 59' 48.190" N
P-29	85° 11' 39.046" E	20° 59' 44.833" N
P-30	85° 11' 40.265" E	20° 59' 41.475" N
P-31	85° 11' 41.484" E	20° 59' 38.118" N
P-32	85° 11' 42.703" E	20° 59' 34.761" N
P-33	85° 11' 44.693" E	20° 59' 29.608" N
P-34	85° 11' 45.928" E	20° 59' 26.086" N
P-35	85° 11' 47.164" E	20° 59' 22.565" N
P-36	85° 11' 48.428" E	20° 59' 18.953" N
P-37	85° 11' 43.395" E	20° 59' 18.703" N
P-38	85° 11' 38.362" E	20° 59' 18.454" N
P-39	85° 11' 34.870" E	20° 59' 18.400" N
P-40	85° 11' 31.377" E	20° 59' 18.347" N
P-41	85° 11' 27.885" E	20° 59' 18.293" N
P-42	85° 11' 24.392" E	20° 59' 18.239" N
P-43	85° 11' 20.900" E	20° 59' 18.186" N
P-44	85° 11' 17.407" E	20° 59' 18.132" N
P-45	85° 11' 13.915" E	20° 59' 18.078" N
P-46	85° 11' 10.422" E	20° 59' 18.024" N
P-47	85° 11' 6.930" E	20° 59' 17.971" N
P-48	85° 11' 3.437" E	20° 59' 17.917" N
P-49	85° 10' 59.945" E	20° 59' 17.863" N

Provisional cardinal points (in WGS84 system) for North of Arkhpal Srirampur (Combined) Block		
PointID	Longitude	Latitude
P-50	85° 10' 56.452" E	20° 59' 17.809" N
P-51	85° 10' 52.960" E	20° 59' 17.755" N
P-52	85° 10' 49.467" E	20° 59' 17.701" N
P-53	85° 10' 45.974" E	20° 59' 17.647" N
P-54	85° 10' 42.482" E	20° 59' 17.594" N
P-55	85° 10' 38.989" E	20° 59' 17.540" N
P-56	85° 10' 35.497" E	20° 59' 17.486" N
P-57	85° 10' 32.004" E	20° 59' 17.432" N
P-58	85° 10' 28.512" E	20° 59' 17.378" N
P-59	85° 10' 25.019" E	20° 59' 17.324" N
P-60	85° 10' 21.527" E	20° 59' 17.270" N
P-61	85° 10' 18.034" E	20° 59' 17.216" N
P-62	85° 10' 14.542" E	20° 59' 17.162" N
P-63	85° 10' 11.049" E	20° 59' 17.107" N
P-64	85° 10' 7.557" E	20° 59' 17.053" N
P-65	85° 10' 4.064" E	20° 59' 16.999" N
P-66	85° 10' 0.572" E	20° 59' 16.945" N
P-67	85° 9' 58.970" E	20° 59' 17.679" N
P-68	85° 9' 58.687" E	20° 59' 17.777" N
P-69	85° 9' 58.623" E	20° 59' 17.787" N
P-70	85° 9' 58.527" E	20° 59' 17.802" N
P-71	85° 9' 57.404" E	20° 59' 17.979" N
P-72	85° 9' 56.227" E	20° 59' 17.829" N
P-73	85° 9' 56.223" E	20° 59' 17.828" N
P-74	85° 9' 55.935" E	20° 59' 17.792" N
P-75	85° 9' 54.729" E	20° 59' 17.631" N
P-76	85° 9' 54.203" E	20° 59' 17.699" N
P-77	85° 9' 52.227" E	20° 59' 18.194" N
P-78	85° 9' 51.431" E	20° 59' 18.921" N
P-79	85° 9' 51.297" E	20° 59' 19.044" N
P-80	85° 9' 51.288" E	20° 59' 19.052" N
P-81	85° 9' 51.270" E	20° 59' 19.068" N
P-82	85° 9' 50.874" E	20° 59' 19.260" N
P-83	85° 9' 50.611" E	20° 59' 19.282" N
P-84	85° 9' 49.533" E	20° 59' 19.332" N
P-85	85° 9' 47.251" E	20° 59' 19.086" N
P-86	85° 9' 47.224" E	20° 59' 19.082" N
P-87	85° 9' 45.809" E	20° 59' 18.849" N
P-88	85° 9' 44.919" E	20° 59' 18.619" N
P-89	85° 9' 44.452" E	20° 59' 18.359" N
P-90	85° 9' 44.419" E	20° 59' 18.340" N
P-91	85° 9' 43.118" E	20° 59' 17.616" N
P-92	85° 9' 42.310" E	20° 59' 17.165" N
P-93	85° 9' 41.942" E	20° 59' 17.112" N
P-94	85° 9' 41.573" E	20° 59' 17.206" N
P-95	85° 9' 41.412" E	20° 59' 17.524" N
P-96	85° 9' 41.372" E	20° 59' 17.647" N
P-97	85° 9' 41.139" E	20° 59' 18.357" N
P-98	85° 9' 40.945" E	20° 59' 19.214" N

Provisional cardinal points (in WGS84 system) for North of Arkhpal Srirampur (Combined) Block		
PointID	Longitude	Latitude
P-99	85° 9' 40.727" E	20° 59' 19.826" N
P-100	85° 9' 40.537" E	20° 59' 20.038" N
P-101	85° 9' 40.487" E	20° 59' 20.094" N
P-102	85° 9' 39.960" E	20° 59' 20.260" N
P-103	85° 9' 39.643" E	20° 59' 20.380" N
P-104	85° 9' 39.170" E	20° 59' 20.387" N
P-105	85° 9' 38.488" E	20° 59' 20.355" N
P-106	85° 9' 38.201" E	20° 59' 20.204" N
P-107	85° 9' 38.053" E	20° 59' 20.070" N
P-108	85° 9' 37.707" E	20° 59' 19.757" N
P-109	85° 9' 37.141" E	20° 59' 18.817" N
P-110	85° 9' 36.545" E	20° 59' 18.098" N
P-111	85° 9' 36.025" E	20° 59' 17.675" N
P-112	85° 9' 35.424" E	20° 59' 17.398" N
P-113	85° 9' 34.716" E	20° 59' 17.317" N
P-114	85° 9' 33.901" E	20° 59' 17.357" N
P-115	85° 9' 33.372" E	20° 59' 17.671" N
P-116	85° 9' 32.896" E	20° 59' 17.968" N
P-117	85° 9' 32.745" E	20° 59' 18.062" N
P-118	85° 9' 32.366" E	20° 59' 18.299" N
P-119	85° 9' 31.574" E	20° 59' 18.634" N
P-120	85° 9' 31.074" E	20° 59' 18.678" N
P-121	85° 9' 30.577" E	20° 59' 18.574" N
P-122	85° 9' 29.978" E	20° 59' 18.150" N
P-123	85° 9' 29.497" E	20° 59' 17.624" N
P-124	85° 9' 29.433" E	20° 59' 17.555" N
P-125	85° 9' 29.392" E	20° 59' 17.483" N
P-126	85° 9' 29.099" E	20° 59' 16.973" N
P-127	85° 9' 28.689" E	20° 59' 16.085" N
P-128	85° 9' 28.377" E	20° 59' 15.860" N
P-129	85° 9' 27.620" E	20° 59' 15.483" N
P-130	85° 9' 26.958" E	20° 59' 14.870" N
P-131	85° 9' 26.815" E	20° 59' 14.738" N
P-132	85° 9' 26.370" E	20° 59' 14.586" N
P-133	85° 9' 26.199" E	20° 59' 14.541" N
P-134	85° 9' 26.017" E	20° 59' 14.494" N
P-135	85° 9' 25.480" E	20° 59' 14.355" N
P-136	85° 9' 24.638" E	20° 59' 14.395" N
P-137	85° 9' 23.977" E	20° 59' 14.781" N
P-138	85° 9' 23.340" E	20° 59' 15.314" N
P-139	85° 9' 22.435" E	20° 59' 16.287" N
P-140	85° 9' 21.745" E	20° 59' 16.894" N
P-141	85° 9' 20.929" E	20° 59' 17.355" N
P-142	85° 9' 20.925" E	20° 59' 17.357" N
P-143	85° 9' 20.422" E	20° 59' 17.641" N
P-144	85° 9' 19.869" E	20° 59' 17.739" N
P-145	85° 9' 19.764" E	20° 59' 17.757" N
P-146	85° 9' 19.605" E	20° 59' 17.714" N
P-147	85° 9' 19.293" E	20° 59' 17.629" N

Provisional cardinal points (in WGS84 system) for North of Arkhpal Srirampur (Combined) Block		
PointID	Longitude	Latitude
P-148	85° 9' 18.665" E	20° 59' 17.389" N
P-149	85° 9' 18.038" E	20° 59' 17.136" N
P-150	85° 9' 16.728" E	20° 59' 16.827" N
P-151	85° 9' 15.440" E	20° 59' 16.574" N
P-152	85° 9' 14.939" E	20° 59' 16.476" N
P-153	85° 9' 14.475" E	20° 59' 16.385" N
P-154	85° 9' 13.402" E	20° 59' 16.054" N
P-155	85° 9' 12.907" E	20° 59' 15.705" N
P-156	85° 9' 12.521" E	20° 59' 15.086" N
P-157	85° 9' 12.427" E	20° 59' 14.102" N
P-158	85° 9' 12.649" E	20° 59' 13.159" N
P-159	85° 9' 12.719" E	20° 59' 12.860" N
P-160	85° 9' 12.733" E	20° 59' 12.804" N
P-161	85° 9' 12.507" E	20° 59' 11.892" N
P-162	85° 9' 12.013" E	20° 59' 11.494" N
P-163	85° 9' 11.750" E	20° 59' 11.409" N
P-164	85° 9' 11.307" E	20° 59' 11.265" N
P-165	85° 9' 9.953" E	20° 59' 10.209" N
P-166	85° 9' 9.880" E	20° 59' 10.167" N
P-167	85° 9' 8.274" E	20° 59' 10.053" N
P-168	85° 9' 7.594" E	20° 59' 9.824" N
P-169	85° 9' 6.491" E	20° 59' 9.812" N
P-170	85° 9' 5.659" E	20° 59' 9.565" N
P-171	85° 9' 5.471" E	20° 59' 9.509" N
P-172	85° 9' 4.607" E	20° 59' 9.251" N
P-173	85° 9' 2.452" E	20° 59' 9.351" N
P-174	85° 9' 2.029" E	20° 59' 9.543" N
P-175	85° 9' 0.983" E	20° 59' 9.691" N
P-176	85° 9' 0.000" E	20° 59' 9.830" N
P-177	85° 8' 59.104" E	20° 59' 9.869" N
P-178	85° 8' 57.941" E	20° 59' 9.920" N
P-179	85° 8' 57.243" E	20° 59' 9.750" N
P-180	85° 8' 57.239" E	20° 59' 9.749" N
P-181	85° 8' 56.628" E	20° 59' 9.600" N
P-182	85° 8' 56.300" E	20° 59' 9.401" N
P-183	85° 8' 55.054" E	20° 59' 8.642" N
P-184	85° 8' 54.857" E	20° 59' 8.538" N
P-185	85° 8' 54.621" E	20° 59' 8.413" N
P-186	85° 8' 54.249" E	20° 59' 8.216" N
P-187	85° 8' 53.402" E	20° 59' 7.918" N
P-188	85° 8' 53.137" E	20° 59' 7.481" N
P-189	85° 8' 53.018" E	20° 59' 6.952" N
P-190	85° 8' 51.196" E	20° 59' 6.782" N
P-191	85° 8' 49.646" E	20° 59' 12.357" N
P-192	85° 8' 49.122" E	20° 59' 17.047" N
P-193	85° 8' 48.598" E	20° 59' 21.737" N
P-194	85° 8' 48.227" E	20° 59' 25.323" N
P-195	85° 8' 47.856" E	20° 59' 28.910" N
P-196	85° 8' 47.485" E	20° 59' 32.497" N

Provisional cardinal points (in WGS84 system) for North of Arkhpal Srirampur (Combined) Block		
PointID	Longitude	Latitude
P-197	85° 8' 46.838" E	20° 59' 37.932" N
P-198	85° 8' 46.422" E	20° 59' 41.736" N
P-199	85° 8' 46.007" E	20° 59' 45.540" N
P-200	85° 8' 45.644" E	20° 59' 48.863" N
P-201	85° 8' 45.281" E	20° 59' 52.187" N
P-202	85° 8' 44.918" E	20° 59' 55.510" N
P-203	85° 8' 44.555" E	20° 59' 58.834" N
P-204	85° 8' 44.192" E	21° 0' 2.157" N
P-205	85° 8' 43.969" E	21° 0' 4.201" N
P-206	85° 8' 43.829" E	21° 0' 5.481" N
P-207	85° 8' 43.466" E	21° 0' 8.804" N
P-208	85° 8' 43.103" E	21° 0' 12.128" N
P-209	85° 8' 42.740" E	21° 0' 15.451" N
P-210	85° 8' 42.377" E	21° 0' 18.775" N
P-211	85° 8' 42.014" E	21° 0' 22.098" N
P-212	85° 8' 41.651" E	21° 0' 25.421" N
P-213	85° 8' 41.288" E	21° 0' 28.745" N
P-214	85° 8' 40.925" E	21° 0' 32.068" N
P-215	85° 8' 40.562" E	21° 0' 35.392" N
P-216	85° 8' 40.199" E	21° 0' 38.715" N
P-217	85° 8' 39.835" E	21° 0' 42.039" N
P-218	85° 8' 39.472" E	21° 0' 45.362" N
P-219	85° 8' 39.109" E	21° 0' 48.686" N
P-220	85° 8' 38.746" E	21° 0' 52.009" N
P-221	85° 8' 38.383" E	21° 0' 55.332" N
P-222	85° 8' 38.020" E	21° 0' 58.656" N
P-223	85° 8' 37.657" E	21° 1' 1.979" N
P-224	85° 8' 37.294" E	21° 1' 5.303" N
P-225	85° 8' 36.931" E	21° 1' 8.626" N
P-226	85° 8' 36.567" E	21° 1' 11.950" N
P-227	85° 8' 36.204" E	21° 1' 15.273" N
P-228	85° 8' 35.841" E	21° 1' 18.597" N
P-229	85° 8' 35.478" E	21° 1' 21.920" N
P-230	85° 8' 41.498" E	21° 1' 21.564" N
P-231	85° 8' 45.008" E	21° 1' 21.891" N
P-232	85° 8' 48.519" E	21° 1' 22.218" N
P-233	85° 8' 54.107" E	21° 1' 22.634" N
P-234	85° 8' 59.989" E	21° 1' 23.092" N
P-235	85° 9' 4.290" E	21° 1' 23.557" N
P-236	85° 9' 10.370" E	21° 1' 24.017" N
P-237	85° 9' 16.789" E	21° 1' 24.483" N
P-238	85° 9' 20.980" E	21° 1' 24.839" N
P-239	85° 9' 24.673" E	21° 1' 25.174" N
P-240	85° 9' 28.366" E	21° 1' 25.509" N
P-241	85° 9' 33.388" E	21° 1' 25.915" N
P-242	85° 9' 38.410" E	21° 1' 26.321" N
P-243	85° 9' 43.732" E	21° 1' 26.783" N
P-244	85° 9' 45.054" E	21° 1' 26.897" N
P-245	85° 9' 50.708" E	21° 1' 27.568" N

Provisional cardinal points (in WGS84 system) for North of Arkhpal Srirampur (Combined) Block		
PointID	Longitude	Latitude
P-246	85° 9' 56.578" E	21° 1' 29.053" N
P-247	85° 10' 2.354" E	21° 1' 31.495" N
P-248	85° 10' 8.269" E	21° 1' 34.541" N
P-249	85° 10' 13.767" E	21° 1' 37.687" N
P-250	85° 10' 17.602" E	21° 1' 39.406" N
P-251	85° 10' 21.437" E	21° 1' 41.125" N
P-252	85° 10' 25.272" E	21° 1' 42.844" N
P-253	85° 10' 28.648" E	21° 1' 44.238" N
P-254	85° 10' 32.025" E	21° 1' 45.633" N
P-255	85° 10' 35.401" E	21° 1' 47.027" N
P-256	85° 10' 39.301" E	21° 1' 48.726" N
P-257	85° 10' 43.201" E	21° 1' 50.425" N
P-258	85° 10' 46.569" E	21° 1' 51.857" N
P-259	85° 10' 49.936" E	21° 1' 53.289" N
P-260	85° 10' 49.937" E	21° 1' 53.289" N
P-261	85° 10' 51.213" E	21° 1' 49.923" N
P-262	85° 10' 52.488" E	21° 1' 46.557" N
P-263	85° 10' 53.764" E	21° 1' 43.191" N
P-264	85° 10' 55.039" E	21° 1' 39.824" N
P-265	85° 10' 56.315" E	21° 1' 36.458" N
P-266	85° 10' 57.591" E	21° 1' 33.092" N
P-267	85° 10' 58.906" E	21° 1' 29.638" N
P-268	85° 11' 0.221" E	21° 1' 26.183" N
P-269	85° 11' 1.402" E	21° 1' 23.020" 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.