

Summary of the Mineral Block

PART A – GENERAL INFORMATION ABOUT MINERAL BLOCK

	Features	Details																																						
1.	Location																																							
	Mineral Block	Bhagal Copper Block																																						
	Corner Points (Latitude, Longitude)	<p>The geo coordinates of the area of all the corner points are as follows:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="3" style="width: 5%;">Pillar</th> <th colspan="4" style="text-align: center;">DGPS Coordinates</th> </tr> <tr> <th colspan="2" style="text-align: center;">UTM DGPS Coordinates (WGS-84)</th> <th colspan="2" style="text-align: center;">Lt. & Long. DGPS Coordinates (WGS-84)</th> </tr> <tr> <th style="text-align: center;">Easting</th> <th style="text-align: center;">Northing</th> <th style="text-align: center;">Latitude</th> <th style="text-align: center;">Longitude</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">A</td> <td style="text-align: center;">418610.2917</td> <td style="text-align: center;">2731124.3692</td> <td style="text-align: center;">24°41'32.5511"</td> <td style="text-align: center;">74°11'43.6174"</td> </tr> <tr> <td style="text-align: center;">B</td> <td style="text-align: center;">420164.5836</td> <td style="text-align: center;">2729865.7285</td> <td style="text-align: center;">24°40'51.9262"</td> <td style="text-align: center;">74°12'39.1828"</td> </tr> <tr> <td style="text-align: center;">C</td> <td style="text-align: center;">418591.2826</td> <td style="text-align: center;">2727922.8635</td> <td style="text-align: center;">24°39'48.4662"</td> <td style="text-align: center;">74°11'43.6089"</td> </tr> <tr> <td style="text-align: center;">D</td> <td style="text-align: center;">417036.9907</td> <td style="text-align: center;">2729181.5043</td> <td style="text-align: center;">24°40'29.0856"</td> <td style="text-align: center;">74°10'48.0467"</td> </tr> <tr> <td colspan="4" style="text-align: center;">Total area of block (Hect.)</td> <td style="text-align: center;">500 Hect.</td> </tr> </tbody> </table>	Pillar	DGPS Coordinates				UTM DGPS Coordinates (WGS-84)		Lt. & Long. DGPS Coordinates (WGS-84)		Easting	Northing	Latitude	Longitude	A	418610.2917	2731124.3692	24°41'32.5511"	74°11'43.6174"	B	420164.5836	2729865.7285	24°40'51.9262"	74°12'39.1828"	C	418591.2826	2727922.8635	24°39'48.4662"	74°11'43.6089"	D	417036.9907	2729181.5043	24°40'29.0856"	74°10'48.0467"	Total area of block (Hect.)				500 Hect.
Pillar	DGPS Coordinates																																							
	UTM DGPS Coordinates (WGS-84)			Lt. & Long. DGPS Coordinates (WGS-84)																																				
	Easting	Northing	Latitude	Longitude																																				
A	418610.2917	2731124.3692	24°41'32.5511"	74°11'43.6174"																																				
B	420164.5836	2729865.7285	24°40'51.9262"	74°12'39.1828"																																				
C	418591.2826	2727922.8635	24°39'48.4662"	74°11'43.6089"																																				
D	417036.9907	2729181.5043	24°40'29.0856"	74°10'48.0467"																																				
Total area of block (Hect.)				500 Hect.																																				
	Villages	Gujaraon-Ki-Bhagal, Tana, Gilund Maphi, Nandoli, Chak Tana-B, Kalyanpura Tehsil Bhupalsagar																																						
	Tehsil/ Taluka	Bhupalsagar																																						
	District	Chittorgarh																																						
	State	Rajasthan																																						
2.	Area (hectares)																																							
	Mineralised Area	30.28 Hectares																																						
	Non - mineralised Area	469.72 Hectares																																						
3.	Exploration																																							
	Status (G2/G3/G4 etc.)	G-2																																						
	Exploration Agency	GSI/MECL																																						
	Total Number of Boreholes with meterage	23 Boreholes, 3566.70 Mt. By GSI 17 Boreholes, 2037.00 Mt. in Phase-I 05 Boreholes, 2200.00 Mt. in Phase-II } MECL																																						
	Borehole Spacing	GSI- 200 m. strike interval & depth of boreholes varies from 86.00 m. to 297 m. MECL- 50-100 meters along strike.																																						
4.	Quantity of Minerals																																							
	Mineral	Copper																																						
	Total Geological Resources	A total of 9.23 million tonnes of ore reserves with 0.735% Cu. have been estimated at 0.5% Cu. cut off by cross section method. Out of these reserves, 4.80 million tonnes with 0.78% Cu are confined between 450 MRL to 350 MRL while 4.43 million tonnes with 0.69% Cu are estimated between 350 MRL to 200 MRL. At 0.2% Cu. cut off, the total ore reserves are to the tune of 28.91 million tonnes with 0.472% Cu.																																						
5.	Mineralised Zones																																							
	Number of Mineral Zones	GSI-03 Mineralised zone MECL-A total of 15 intersections of ore zones were obtained from the boreholes drilled by MECL at 0.5% Cu. cut off. Based on the above ore intersections along with recasted ore zones of GSI boreholes, the ore reserves have been estimated to be 9.23 million tonnes with average 0.73% Cu at 0.5% cut-off. The total ore resources at 0.2% Cu cut-off have been estimated to be 28.91 million tonnes with average 0.472% Cu.																																						

	Features	Details
	Trend (Dip and Strike)	It is observed from the subsurface data that the strike of the formation is NNE-SSW with moderate dips (30°– 45°), due east.
	Total Thickness	Assuming the minimum stopping width of 2.00 m., the minimum lode width at different cut off grades is also considered to be 2.00 m. for ore reserve estimation. The lean partings of 2.00 m. or less have also been considered in the ore reserve. The copper mineralisation of Bhagal copper deposit is distributed over a vertical column of 250 metres (from +450 MRL to +200 MRL).
	6. Accessibility	
	Nearest Rail Head	The Bhagal Copper Deposit is well connected by road from Fatehnagar and Bhopalsagar Railway Stations on the Udaipur-Chittorgarh metre gauge railway line of the Western Railways and are located about 20 kms. each due north and north-northwest of the present block. The area is also accessible through metalled road from Kir-ki chowki, located about 8 kms due south, on National Highway No.79. Chittorgarh and Udaipur district headquarter are at 65 kms. and 60 kms respectively from the block.
	Road	The area is also accessible through metalled road from Kir-ki chowki, located about 8 kms due south, on National Highway No.79. Chittorgarh and Udaipur district headquarter are at 65 kms. and 60 kms respectively from the block.
	Airport	The nearest airport is 40 km. from the area known as Maharana Pratap Airport, Dabok, Udaipur.
	7. Hydrography	
	Local Surface Drainage Pattern (Channels)	The area is drained by southwest to east flowing seasonal Baram Nala, which passes through middle part of the deposit. The Baram Nala later drains into the Berach river. The area exhibit a dendritic pattern of drainage. The main water sources are dug-well, hand pump and tanks. The quality of water generally tolerable for drinking purpose.
	Rivers/Streams	Baram Nala
	8. Climate	
	Mean Annual Rainfall	Above 630mm
	Temperatures	0°
	Temperatures (June)	48°
	9. Topography	
	Toposheet Number	45 L/2
	Morphology of the Area	The area forms a pediplain land in between the two ridges namely Lalwas-Tana ridge and north-south trending Rorya-Dundia ridge lying in the north and western part of the area respectively. The eastern area is gently undulating. By and large, the area is covered by transported soil and alluvium with scanty rock exposures. The soil cover varies from a meter to 18 metres. The surface altitude in the deposit varies between 440 m. and 465 m. above mean sea level.

**PART B – PARTICULARS OF STATUTORY LICENSES, PERMITS,
PERMISSIONS, CONCESSIONS, APPROVALS AND CONSENTS RELATED
TO MINING OPERATIONS**

	Particulars	Details/Status
1.	Forest clearance	Forest land is nil. Not Applicable
2.	Wild life clearance (sanctuary, reserve or special zone clearances)	No sanctuary area falls in the block. Not Applicable
3.	Environmental clearance	To be obtained by the Successful Bidder
4.	Mining Plan Approval	To be obtained by the Successful Bidder
5.	Consent to establish	To be obtained by the Successful Bidder
6.	Explosive license	To be obtained by the Successful Bidder
7.	Permission for mine opening	To be obtained by the Successful Bidder
8.	Permission of installation/ trial operation of equipment	To be obtained by the Successful Bidder
9.	Ground water clearance (Centre/State)	To be obtained by the Successful Bidder
10.	Railway siding approval	To be obtained by the Successful Bidder
11.	Approval for diesel storage	To be obtained by the Successful Bidder
12.	Power line from State Discom	To be obtained by the Successful Bidder
13.	Clearances relating to work under an existing transmission line or shifting of the transmission line	To be obtained by the Successful Bidder
14.	Grama Sabha consent	To be obtained by the Successful Bidder
15.	Any other clearances to start mining operation	To be obtained by the Successful Bidder

PART C – PARTICULARS OF LAND

	Land Type	Area (in Hectares)
1.	Total Concession Area	500
2.	Forest Land with Status	0.00
3.	Government Land with Status	49.35
4.	Private Land with Status	348.66*
5.	Charagah/Pasture Land	91.44
6.	PWD Land	10.55
7.	Revenue survey details of the area	Available

Note :* Private Land (Khatedari) including Industrial convert Land (Area-0.375 hact.)