

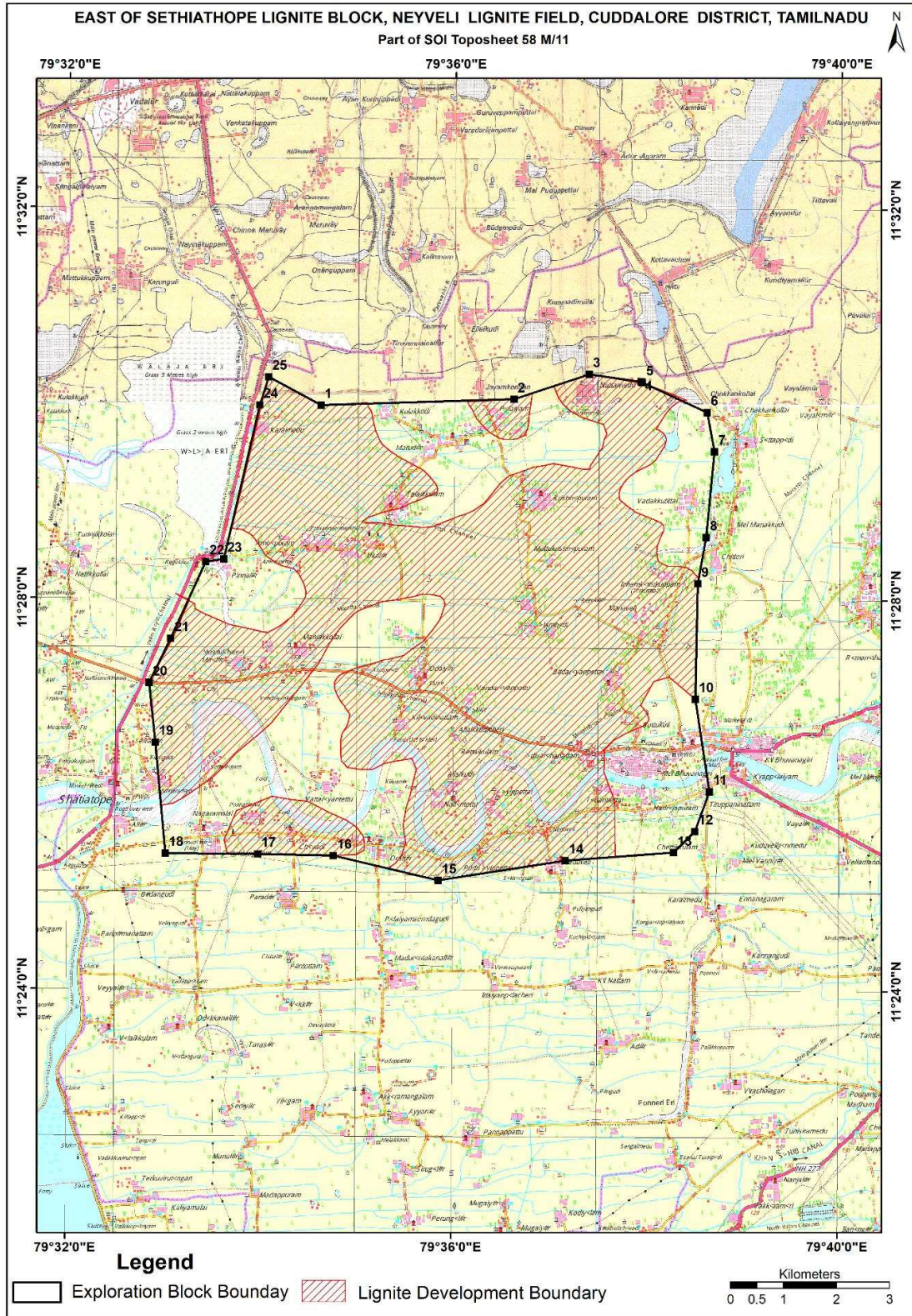
East of Sethiathope Lignite Block Summary

Sr.No.	Features	Details
1	Location	
	Lignite Block	East of Sethiathope
	Latitude	Latitude (N): 11°24'59.5"N - 11°30'9.1"N
	Longitude	Longitude (E): 79°32'57.2"E - 79°38'50.4"E
	Topo Sheet No.	SOI-58 M/11
	Lignite Field	Neyveli Lignite Field
	Villages	Ambapuram, Thalaikulam, Nathamedu, Krishnapuram, Vadakku thittai, Muthukrishnapuram, Therku thittai, Manaveli, Vandarayanpattu, Odaiyur, Budarayanpettai, Bhuvanagiri, Alisikudi, Orattur, Chavadi, Nagaramalai, Chinnanatham, Miralur, Manjakollai, Pinnalur.
	Tehsil/Taluka	Bhuvanagiri
	District	Cuddalore
	State	Tamil Nadu
2	Connectivity with Block	
	Nearest Rail Head	Chidambaram
	Road	The block can be approached from Sethiathope village located south-west of block on Kumbhakonam-Chennai National highway (45C). Virudachalam-Chidambaram state highway passes through Sothern side of the block.
	Airport	Puducherry
3	Area	
	Geological Block Area (After re-blocking)	84.41 Sq.km
	Forest Area	No forest as per topo sheet
	Non-Forest Area	84.41 Sq.km
4	Climate and Topography	
	Average Annual Rainfall	1200 mm.
	Temperature (Min.-Max. in°C)	27 to 37
	Local Surface Drainage Channels	The Topography is gently undulating with a gradient of 1 in 35 to 1 in 58 towards east and southeast. The study area is covered by alluvium and gentle undulating topography generally sloping very gently towards east and south-east. The surface elevation is 16-25m above MSL. The area is drained by Walaja Eri in the north-western part of the block.
	Rivers	Vellar river passing through southern side of the block boundary.
5	Exploration	

	Status	Regional Exploration completed on 800m grid.				
	Exploration Agency	Mineral Exploration Corporation Ltd., (MECL)				
	Explored Area (as per GR)	86.63 Sq. km (Appx.) as per GR.				
	Total Number of Boreholes with metreage	86 boreholes & 30329 m				
	Borehole Density	1.00				
	General Dip of Seams	NE				
	General Strike Direction	NW-SE				
	Faults	Devoid of Fault				
	Depth range of Lignite seam	52m to 445.m				
6	Lignite Reserve: Indicated category					
	Grade-wise	Grade as per National Lignite Index	GCV Range (K.Cal/Kg.)		Gross Reserves (MT)	Reserves %
		G17 & below	1001-2000		38.465	42.21
		G15,G16,G17	2001-3000		52.652	57.79
		G13,G14	3001-4000		0	0
			Total		91.117	100.00
	Ratio-wise	Lignite to OB+IB Ratio		Gross Reserves (MT)	Reserves %	
		< 1 : 15		16.891	18.54	
		> 1 : 15		74.226	81.46	
			Total		91.117	100.00
7	Surface Constraints	Major Vellar river passing through southern side of the block boundary. State highway passes through the block. Most of the area is under cultivation.				
8	Grade of Lignite	G13,G14,G15,G16,G17,G17& below (Provisional). Based on Grade wise data available in GR.				
9	Decision Support System (DSS) Analysis	The polygon touches major river(s) – Vellar river or Vasishtha Nadi and Uppanar.				
10	Eco Sensitive Zone (ESZ)	About 70 Km North-East of Karaivetti Bird Sanctuary.				
11	Remarks	Regional drilling carried out on 800m grid spacing. Geological Report available.				

Note:

1. The summary has been compiled from “Geological Report on Exploration for Lignite, East of Sethiathope Block, Cuddalore District, Tamil Nadu-October 2015, prepared by Mineral Exploration Corporation Ltd., Nagpur.
2. The Exploration block area mentioned above is as given in the Geological report, which may vary after DGPS survey.



**Provisional cardinal Points for East of Sethiathope Lignite Block,
Cuddalore District, Tamilnadu.**

Boundary Points	Latitude (DMS)	Longitude (DMS)
1	11° 29' 58.744" N	79° 34' 36.879" E
2	11° 30' 2.904" N	79° 36' 36.971" E
3	11° 30' 18.438" N	79° 37' 23.594" E
4	11° 30' 13.842" N	79° 37' 55.953" E
5	11° 30' 13.580" N	79° 37' 56.624" E
6	11° 29' 55.313" N	79° 38' 37.017" E
7	11° 29' 31.264" N	79° 38' 41.742" E
8	11° 28' 38.570" N	79° 38' 36.760" E
9	11° 28' 10.201" N	79° 38' 31.661" E
10	11° 26' 59.283" N	79° 38' 30.517" E
11	11° 26' 2.474" N	79° 38' 39.535" E
12	11° 25' 38.093" N	79° 38' 30.522" E
13	11° 25' 25.091" N	79° 38' 17.466" E
14	11° 25' 19.874" N	79° 37' 10.091" E
15	11° 25' 7.331" N	79° 35' 51.134" E
16	11° 25' 22.292" N	79° 34' 45.909" E
17	11° 25' 23.082" N	79° 33' 58.932" E
18	11° 25' 23.291" N	79° 33' 1.445" E
19	11° 26' 31.414" N	79° 32' 54.843" E
20	11° 27' 8.014" N	79° 32' 50.844" E
21	11° 27' 35.164" N	79° 33' 4.185" E
22	11° 28' 22.384" N	79° 33' 25.709" E
23	11° 28' 24.077" N	79° 33' 36.886" E
24	11° 29' 58.733" N	79° 33' 58.874" E
25	11° 30' 15.995" N	79° 34' 4.279" E