

# MACHHAKATA COAL BLOCK SUMMARY

## PART A

Sr. No.	Features	Details
<b>1.</b>	<b>Location</b>	
	Coal Block	MACHHAKATA Block
	Latitude	21° 03' 15" to 21° 06' 20"
	Longitude	84° 47' 10" to 84° 50' 27"
	Topo Sheet No.	73C/16 (RF 1:50000)
	Coalfield	Talcher Coalfield
	Villages	Bagadia
	Tehsil/ Taluka	Chhendipada
	District	Angul
	State	Odisha
<b>2.</b>	<b>Connectivity with Block</b>	
	Nearest Rail Head	Angul - at about 42 Km
	Road	Angul, located on NH 42 is the nearest town at a distance of about 43 km from the block. The Angul-Chhendipada-Nuagaon metalled road forms the northern boundary of the block.
	Airport	Bhubaneshwar at about 185 Km
<b>3.</b>	<b>Area</b>	
	Geological Block Area	20.43 Sq. Km.
	Mining Lease Area (As per Mining Plan)	3023.00 Ha
	Project Area	NA
	Forest Area	73.61 Ha
	Non-Forest Area	2949.39 Ha
<b>4.</b>	<b>Climate and Topography</b>	
	Average Annual Rainfall	75.8 cm to 158 cm
	Temp. (Min. – Max.)	6.7° C – 46.7° C
	Local Surface Drainage Channels	Brahmani river, flowing in approximately north-south direction along the eastern boundary of the Talcher coalfield, provides the main drainage of the region. Two small but prominent nalas, one forming western boundary (Baishi/Shagarhia nala) and another flowing almost parallel to eastern boundary of the block.
	Rivers	Brahmani river, Baishi/Shagarhia nala etc.
<b>5.</b>	<b>Exploration</b>	
	Status	Explored. Additional Boreholes may be required to increase the confidence level.
	Exploration Agency	GSI and CMPDI
	Total Number of Boreholes with meterage	193 boreholes with total meterage of 39602.00 m.
	Borehole Density	9.5 BH/ sq. km. (193/20.43)
	General Dip of Seams	3° -5° dipping towards North
	General Strike Direction	East to West with swings to NE-SW in the south central & north eastern part

<b>6. Workable coal Seam details (As per the Mining Plan)</b>							
	Coal Seams/ Parting	Thickness Range(m)	Depth Range	Geological Reserve (Mte)	Extractable Reserve (Mte)	Grade	Mining Method (UG/OC/Mixed)
	Soil	<b>2.00-38.00</b>					
	WM	<b>0.00-32.00</b>					
	Part Parting above XIV	<b>5.60-65.59</b>					
	XIV	<b>0.17-0.27</b>					
	Parting	17.36-26.59					
	XIII	<b>0.15-1.00</b>					
	Parting	4.99-14.42					
	XII	<b>0.10-1.17</b>					
	Parting	5.38-26.26					
	XI	<b>0.20-7.27</b>		10.77	10.19	E-G	OC
	Parting	4.14-19.99					
	X	<b>0.12-3.77</b>		5.13	4.83	E-G	OC
	Parting	7.31-26.63					
	IX TOP	<b>0.10-4.96</b>		11.70	10.79	E-G	OC
	Parting	0.47-10.87					
	IX BOT	<b>0.40-6.37</b>		64.48	59.13	E-G	OC
	Parting	0.45-12.00					
	VIII	<b>0.49-13.92</b>		122.71	112.36	F-G	OC
	Parting	0.20-26.45					
	VII TOP	<b>0.29-12.60</b>		120.04	109.82	E-G	OC
	Parting	0.32-15.54					
	VII BOT	<b>0.07-5.37</b>		7.51	6.36	E-G	OC
	Parting	1.14-14.04					
	VI TOP	<b>0.34-8.21</b>		80.98	74.06	E-G	OC
	Parting	0.20-13.62					
	VI BOT	<b>0.20-12.58</b>		78.46	71.85	E-G	OC
	Parting	0.14-3.50					
	IV/V	<b>0.13-5.85</b>		56.73	50.60	D-G	OC
	Parting	0.30-10.43					
	III TOP TOP	<b>2.25-13.65</b>		158.03	142.46	E-G	OC
	Parting	1.70-13.24					
	III TOP BOT	<b>0.18-1.30</b>					
	Parting	1.15-13.36					
	III MID	3.98-10.82		217.16	191.53	D-G	OC
	Parting	0.05-6.59					
	III BOT TOP	<b>0.36-5.84</b>		72.77	63.44	C-G	OC
	Parting	0.62-16.27					
	III BOT BOT	0.05-5.91		10.79	8.14	F-G	OC
	Parting	1.22-20.33					
	LOCAL 1	<b>0.05-2.62</b>		19.07	17.10	D-G	OC
	Parting	0.31-14.14					
	LOCAL 2	<b>0.08-2.62</b>		14.61	12.15	E-G	OC

	Parting	0.70-13.05					
	II TOP	<b>0.12-5.47</b>		43.07	37.16	E-G	OC
	Parting	0.72-15.71					
	LOCAL 3	<b>0.10-1.32</b>					
	Parting	0.73-10.72					
	II MID	<b>0.06-2.31</b>		8.20	6.28	E-G	OC
	Parting	<b>1.63-17.68</b>					
	II BOT	<b>0.07-2.76</b>		5.96	5.47	D-G	OC
	Parting	8.57-35.90					
	I A TOP	<b>0.19-2.74</b>		12.22	11.22	E-G	OC
	Parting	0.17-11.67					
	I A BOT	<b>0.10-5.17</b>		38.42	32.46	D-G	OC
	Parting	0.21-7.43					
	I B	<b>1.60-12.15</b>		180.18	154.02	C-F	OC
	Parting	4.73-18.10					
	I C	<b>0.09-4.86</b>		9.37	8.72	C-G	OC
	Parting	1.54-16.37					
	I D	<b>0.10-8.77</b>		52.29	46.44	B-F	OC
	Parting	1.48-25.98					
	I E	<b>0.08-4.19</b>					
	Parting	1.75-16.70					
	I F	<b>0.05-3.00</b>					
	Parting	0.50-26.47					
	I G	<b>0.14-1.60</b>					
	Parting	3.86-13.47					
	I H	<b>0.14-1.54</b>					
	<b>TOTAL COAL (Mte)</b>			<b>1400.65</b>	<b>1246.58</b>		
	<b>Total OB(Mm3)</b>				<b>3039.87</b>		
	<b>Stripping Ratio (Cum/ te)</b>				<b>2.44</b>		

**PART B**

<b>Sr. No.</b>	<b>Features</b>	<b>Details</b>
<b>1.</b>	<b>Previous Allocation</b>	
	Name and Address of Allocatee	Gujarat State Electricity Corporation Limited, Maharashtra State Electricity Board
<b>2.</b>	<b>Target Capacity as per Mining Plan</b>	<b>30 Mty</b>
<b>3.</b>	<b>Status of Clearances/Approvals</b>	
	Mining Plan/ Mine Closure Plan	Approved
	Forest Clearance	Not Approved
	Environmental Clearance	Not Approved
	Mining Lease	Mining Lease not obtained
	Land Acquisition	Land Acquisition not yet completed. Deposited ₹27.98 Crores towards advance 10% charges.
	No. of PAPs as per Mining Plan	15040 as per mining plan
<b>4.</b>	Surface Infrastructure already built, if any.	Nil

Note: The above data is compiled from Geological Report, Approved Mining Plan (30 Mty), and the data furnished by the prior allottee in relevant Annexures

**Remarks**

A letter was written by GM (Exploration), CMPDI on 8/11/17 to Joint Secretary (RKS), GOI, MOC regarding "Issues related to Machhakata, Mahanadi, Chhendipada-I and Chhendipada-II coal blocks". The content of the letter is as follows:

"This is in reference to the meeting in MoC on the above subject on 24/8/2017. The issue related to the block boundaries of Machhakata, Mahanadi, Chhendipada — I and Chhendipada — II blocks were discussed in detail.

- (i) Issues related to boundary adjustment of Machhakata and Mahanadi coal blocks were sent to MoC vide letter No. CMPDI/DG/Captive/112 dated 05.10.2017 (copy enclosed as Annexure-IA and IB). A brief note on valuation of Machhakata, Mahanadi, Chhendipada-I and Chhendipada-II coal blocks is enclosed as Annexure-II including tentative valuation of these coal blocks.
- (ii) Issues related to boundary adjustment of Chhendipada-I & Chhendipada-II were sent to MoC vide letter No. CMPDI/DG/129 dated 05.10.2017 (copy enclosed as Annexure-IIIA and IIIB). Issues related to mineability of Chhendipada-II is given in Annexure-III and that of valuation of Chhendipada-I & Chhendipada-II are enclosed in Annexure-II.
- (iii) Issues related to boundary adjustment of Chhendipada-II coal block were sent to MoC vide letter No. CMPDI/DG/924 dated 18.10.2017 (copy enclosed as Annexure-IVA and IVB).
- (iv) Thereafter an exercise was taken up to find the mineability of the remaining partially explored Chhendipada-II coal block and after the exercise it has been found that an opencast mine of 20-25 MTY independently can be planned in Chhendipada-II coal block. During the

exercise it is also observed that in the northern side of its boundary, deep seated coal reserves and non-coal bearing Talchir/ Metamorphic formation is there and can be used for over burden dumping. Considering this, it is advisable to extend the block boundary on northern side up to the Tikra Nadi to include deep seated coal bearing and non-coal bearing Talchir/Metamorphic Formation to create overburden dumping space (Plan enclosed). Part of this additional area will be coal bearing and part of it will be non-coal bearing. A brief note on the mineability of this coal block is given in Annexure —V.

- (v) So, in view of the exercise described in Point No. (iv) above, letter No. CMPDI/DG/924 dated 18.10.2017 referred in point No. (iii) above is hereby withdrawn.”

Annexures referred above consists of:

1. Annexure 1A: Letter no CMPDI/DG/Captive/112 dated 5.10.17 for “Boundary adjustment of Machekata & Mahanadi coal blocks –for approval.
2. Annexure I B- Plan of Machakata showing proposed Revision of boundary as attachment of the above letter
3. Annexure III A- Letter no CMPDI/DG/127 dt- 05.10.12 for “Boundary adjustment of chhendipada-I & Chhendipada-II – for approval.
4. Annexure IIIB- Plan showing revised boundary Chhendipada as attachment of the above letter.
5. Annexure IVA- Letter dt- 18.10.12 for “ Boundary adjustment of Chhendipada-II - for approval”
6. Annexure IVB- Brief note on potentiality of opencast mine in chhendipada-II block along with Plan as attachment of the above letter.
7. Annexure IV- Note on valuation of Machakata, Mahanadi, Chhendipada-I and chhendipada-II coal blocks.
8. Annexure IV- brief note on potentiality of opencast mine in Mahanadi coal block.