

MAHANADI COAL BLOCK SUMMARY

PART A

Sr. No.	Features	Details
1.	Location	
	Coal Block	MAHANADI Block
	Latitude	21° 05' 08" to 21° 09' 05"
	Longitude	84° 48' 34" to 84° 53' 12"
	Topo Sheet No.	73C/16 (RF 1:50000)
	Coalfield	Talcher Coalfield
	Villages	Bagadia & Porhaparha
	Tehsil/ Taluka	Chhendipada
	District	Angul
	State	Odisha
2.	Connectivity with Block	
	Nearest Rail Head	Angul at about 40 Km
	Road	Connected to Angul through metalled road. Block is approachable by Angul-Bagadia road.
	Airport	Bhubaneshwar at about 185 Km
3.	Area	
	Geological Block Area	32.00 Sq. Km.
	Mining Lease Area (As per Mining Plan)	
	Project Area	
	Forest Area	
	Non-Forest Area	
4.	Climate and Topography	
	Average Annual Rainfall	74.3 cm to 146.43 cm
	Temp. (Min. – Max.)	8.4 ° C to 46.7 ° C
	Local Surface Drainage Channels	Sapui, Baunsajura and Shagarhia are three small but prominent nalas flowing almost south to north parallel to each other and discharging water to Anuli nadi in the north.
	Rivers	Sapui, Baunsajura, Shagarhia nalas and Aunli Nadi.
5.	Exploration	
	Status	Explored. Additional Boreholes may be required to increase the confidence level.
	Exploration Agency	GSI and CMPDI
	Total Number of Boreholes with meterage	241 boreholes with total meterage of 74501.65 m.
	Borehole Density	7.5 boreholes/ Sq. Km. (241/32)
	General Dip of Seams	3° -5° dipping towards North
	General Strike Direction	Generally East-West

6. Workable coal Seam details (As per GR)							
	Coal Seams/ Parting	Thickness Range(m)	Depth Range	Geological Reserve (Mte)	Extractable Reserve (Mte)	Grade	Mining Method (UG/OC/Mixed)
	Soil	0.00-18.50					
	WM	0.00-40.71					
	Parting	0.10-246.75					
	IX TOP	0.10-7.06		68.51		E-G	OC
	Parting	1.03-18.43					
	IX BOT	0.06-6.00		81.969		D-G	OC
	Parting	3.00-31.42					
	VIII	0.14-6.06		81.384		E-G	OC
	Parting	0.14-24.22					
	VII TOP	0.04-8.88		77.276		E-G	OC
	Parting	0.10-22.17					
	VII BOT	0.05-9.40		72.143		D-G	OC
	Parting	0.33-26.67					
	VI TOP	0.05-7.77		41.183		D-G	OC
	Parting	0.01-20.12					
	VI BOT	0.05-12.55		100.724		E-G	OC
	Parting	0.01-54.88					
	IV/V	0.19-12.48		173.949		E-G	OC
	Parting	1.50-31.06					
	III TOP TOP	0.10-7.62		97.32		D-G	OC
	Parting	0.55-35.39					
	III TOP BOT	0.01-7.42		61.208		E-G	OC
	Parting	1.02-28.92					
	III MID	3.85-14.75		392.936		D-G	OC
	Parting	0.01-14.04					
	III BOT TOP	0.14-8.67		143.684		D-G	OC
	Parting	0.38-25.17					
	III BOT BOT	0.05-6.56		18.921		E-G	OC
	Parting	5.90-35.83					
	II TOP	0.14-5.02		49.567		D-G	OC
	Parting	2.22-27.82					
	II MID	0.03-3.51					
	Parting	3.08-22.11					
	II BOT	0.05-4.60		20.311		D-G	OC
	Parting	3.45-79.94					
	I A TOP	0.11-8.40		76.99		C-G	UG
	Parting	0.81-45.81					
	I A BOT	0.08-5.25		25.50		D-G	UG
	Parting	0.56-30.74					
	I B	0.08-12.65		226.432		B-G	UG
	Parting	0.20-22.63					
	I C	0.07-9.34		43.045		B-G	UG
	Parting	1.32-18.90					
	I D TOP	0.10-7.98		39.029		B-G	UG
	Parting	0.08-15.85					

	I D BOT	0.06-7.84		22.939		B-G	UG
	Parting	4.86-41.96					
	I E	0.06-2.53					
	Parting	2.85-41.55					
	I F	0.14-2.60					
	Parting	3.80-33.17					
	I G	0.33-3.90		78.502		A-F	UG
	TOTAL COAL (Mte)			1993.522			
	Total OB(Mm3)			9087.352			
	Geological Stripping Ratio (Cum/ te)			6.1			

PART B

Sr. No.	Features	Details
1.	Previous Allocation	
	Name and Address of Allocatee	Gujarat State Electricity Corporation Limited, Maharashtra State Electricity Board
2.	Target Capacity as per Mining Plan	NA
3.	Status of Clearances/Approvals	
	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.
	No. of PAPs as per Mining Plan	NA
4.	Surface Infrastructure already built, if any.	Nil

Note: The above data is compiled from Geological Report, Approved Mining Plan (30 Mty), Draft Mining Plan (50 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.