

## PROMOTIONAL AND DETAILED EXPLORATION

### 1. Promotional Exploration

Mineral Exploration Corporation Limited (MECL), State Governments and Central Mine Planning and Design Institute (CMPDI) are conducting Promotional Exploration under the Ministry of Coal's Plan scheme of "Promotional Exploration for Coal & Lignite". The

summary of Promotional Drilling carried out in coal & lignite during the period 2019-20, 2020-21, 2021-22, 2022-23, Jan'23-Dec'23 (provisional), Apr'23-Dec'23 (provisional) and Jan'24-Mar'24 (Projected) is given below:

(Drilling in Metre)

Command Area	2019-20 Actual	2020-21 Actual	2021-22 Actual	2022-23 Actual	Jan'23- Dec'23 (Prov.)	2023-24 (Apr'23- Dec'23) (Prov.)	2023-24 Jan'24- Mar'24 (Proj.)	2023-24 (Apr'23- Mar'24) (Proj.)
Drilling in CIL Command Area	70973	111735	155153	76800	121595	93400	43247	136647
Drilling in SCCL Command Area	11210	291	0	0	1521	1521	1500	3021
Drilling in Lignite Areas	33497	22852	13984	0	12332	12332	8000	20332
<b>Total</b>	<b>115680</b>	<b>134878</b>	<b>169137</b>	<b>76800</b>	<b>135448</b>	<b>107253</b>	<b>52747</b>	<b>160000</b>
<b>Growth %</b>	<b>-17%</b>	<b>17%</b>	<b>25%</b>	<b>-55%</b>				

**Note:** Achievement of target depends upon timely availability of forest clearance to take up drilling in forest areas & favorable law & order condition.

### 2. Detailed Drilling in Non-CIL Blocks

CMPDI carries out Detailed Exploration in CIL and Non-CIL blocks as per strict timelines to bring resources falling in indicated and inferred category into the Measured (Proved) category. The exploratory drilling in non-CIL/captive Mining blocks is taken up under the

Ministry of Coal's Plan scheme of "Detailed Drilling in Non-CIL Blocks".

The details of actual drilling in Non-CIL/Captive Mining Blocks during the period 2019-20, 2020-21, 2021-22, 2022-23, Jan'23-Dec'23 (provisional), Apr'23-Dec'23 (provisional) and Jan'24-Mar'24 (Projected) are given below:



(Drilling in Metre)

Command Area	2019-20 Actual	2020-21 Actual	2021-22 Actual	2022-23 Actual	Jan'23- Dec'23 (Prov.)	2023-24 (Apr'23- Dec'23) (Prov.)	2023-24 Jan'24- Mar'24 (Proj.)	2023-24 (Apr'23- Mar'24) (Proj.)
CMPDI (Departmental)	207677	174622	87571	93191	99507	51637	10000	61637
Outsourcing by CMPDI	464807	469961	171762	89016	189280	127852	20511	148363
<b>Total</b>	<b>672484</b>	<b>644583</b>	<b>259333</b>	<b>182207</b>	<b>288787</b>	<b>179489</b>	<b>30511</b>	<b>210000</b>
<b>Growth %</b>	<b>39%</b>	<b>-4%</b>	<b>-60%</b>	<b>-30%</b>				

### 3. Drilling Performance in 2023-24:

CMPDI deployed its departmental resources for detailed exploration of CIL/Non-CIL blocks. In addition, MECL, DGM Assam, DGM Nagaland, DMR Meghalaya and 6 other contractual agencies have also deployed resources for detailed/regional drilling/exploration in CIL/Non-CIL blocks. A total of 100 to 120 drills were deployed in 2023-24, out of which, 67 were departmental drills.

In 2023-24, CMPDI and its contractual agencies took up exploratory drilling in 110 blocks/mines of 26 coalfields situated in 12 States. Out of 110 blocks/mines, Departmental drills of CMPDI took up exploratory drilling in 59 blocks/mines, whereas, contractual agencies took up exploratory drilling in 51 blocks.

The overall performance of exploratory drilling during 2023-24 (upto Dec'23) is given below:

Agency	Detailed Drilling During Apr-23 to Dec-23 (Provisional)			Achieved Prev. Year: Apr-22 to Dec-22	Growth (%)
	Target	Achiev.	Achiev. (%)		
<b>Detailed Drilling undertaken by CMPDI (CIL, Consultancy, NMET, Promotional &amp; Non-CIL):</b>					
I. Departmental	2.881	2.481	86%	2.460	1%
II. Outsourcing	2.576	3.090	120%	1.481	109%
<b>Grand Total</b>	<b>5.457</b>	<b>5.571</b>	<b>102%</b>	<b>3.941</b>	<b>41%</b>

During 2023-24 (Apr'23 to Dec'23), a total of about 2.48 lakh metre drilling was carried out through Departmental resources. About 3.09 lakh metre drilling was carried out through outsourcing, out of which about 0.02 lakh meter drilling was carried out through State Govts., 1.25 lakh metre drilling was carried out through tendering & 1.82 lakh metre drilling through

MoU with MECL.

During Apr'23 to Dec'23, drilling progress was affected mainly due to complete stoppage of drilling in two camps in RI-VII area, Odisha till Nov'23 and adverse Law & Order condition in the state of Jharkhand and Chhattisgarh.



#### 4. Geological Reports

In 2023-24 (up to Dec'23), 22 Geological Reports have been prepared on the basis of Detailed/ Regional exploration conducted in previous years involving about 8 Billion Tonnes of Measured (Proved) coal resources category. About 9 GRs are expected to be submitted during Jan'24-Mar'24 with estimated resource of about 5 billion tones.

#### 5. COAL RESOURCES

##### Inventory of Geological Resources of coal in India

As a result of exploration carried up to the maximum depth of 1200 m by the Geological Survey of India (GSI), CMPDI, SCCL and MECL, a cumulative total of 378.21 Billion tonnes of geological resources of coal have so far been estimated in the country as on 01.04.2023. The details of State-wise geological resources of coal are given below:

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##### STATEWISE GEOLOGICAL RESOURCES OF COAL IN INDIA

AS ON 01.04.2023 (*RESOURCE IN MILLION TONNES*)

State	Measured (331)	Indicated (332)	Inferred (333)	Resource
ODISHA	52046.19	37536.32	4936.08	94518.59
JHARKHAND	55749.18	26994.01	5094.91	87838.10
CHHATTISGARH	37236.35	42293.97	1243.55	80773.87
WEST BENGAL	17459.34	12698.82	3775.12	33933.28
MADHYA PRADESH	15279.27	12456.93	4482.33	32218.53
TELANGANA	11256.78	8496.57	3433.07	23186.42
MAHARASHTRA	8064.76	3424.65	1846.59	13336.00
BIHAR	309.53	5040.18	47.96	5397.67
ANDHRA PRADESH	1024.65	2368.94	778.17	4171.76
UTTAR PRADESH	884.04	177.76	0.00	1061.80
MEGHALAYA	89.04	16.51	470.93	576.48
ASSAM	464.78	57.21	3.02	525.01
NAGALAND	8.76	21.83	447.72	478.31
SIKKIM	0.00	58.25	42.98	101.23
ARUNACHAL PRADESH	31.23	40.11	18.89	90.23
<b>Total</b>	<b>199903.90</b>	<b>151682.06</b>	<b>26621.32</b>	<b>378207.28</b>

Source: Geological Survey of India's Inventory of Geological Resources of Indian Coal and Lignite Resources as on 1.4.2023. The inventory did not take into account the mined out reserves.

