

# **COAL GRADES**

## **2020 - 2021**



Quality Management Department  
**CENTRAL COALFIELDS LIMITED**

*(A Miniratna Company)*

DARBHANGA HOUSE, RANCHI - 834029



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Note : Prov. – Indicates Provisional Grade.





Coal India Limited  
A Maharatna Company  
www.cilindia.in

**Central Coalfields Limited**  
**Darbhanga House, Ranchi**



Ref: CCL/HQ/ QM/ Annual Grade /2020/4157

Dated 31<sup>st</sup> March, 2020

To,  
The Coal Controller,  
The office of the Coal Controller of India,  
The Ministry of Coal, Govt. of India  
1, Council House Street, Kolkata 700 001

Sub :- Declaration of grades of coal seams being worked out in Central Coalfields Limited for the financial year 2020-21

Ref:- E-mail received from the office of Coal Controller of India dated 31<sup>st</sup> March, 2020

महोदय,

In reference to your letter no. CC/TECH/Annu. Gr./CCL/2020-21 dated 24/31-March, 2020 and in pursuance of gazettee notification of Ministry of Coal, New Delhi dated 24<sup>th</sup> January, 2019 S.O. 174 and clause 4(1) & 4(2) of the Colliery Control rules , 2004 of Govt. of India, based on systematic sampling and scientific analysis , the grades of coal seams being worked at different collieries of Central Coalfields Limited for the year 2020-21 are being declared and enclosed herewith .

These grades will have effect from 00:00 Hour of 1<sup>st</sup> April, 2020.

सधन्यवाद।

Encl: **As above**

भवदीय,

Nominated Owner/ Director(Tech./Oprn.)

Distribution:-

1. The D(F) / The D(T/P&P), CCL - for kind information.
2. The GM (M&S), CIL - for information.
3. The TS to CMD, CCL – for information.
4. The GM (M&S), CCL – for information.
5. The Area GM

Magadh-Amrapali/ Piparwar/ NK/ Argada/ Barka Sayal/ Kuju/ Hazaribagh  
Rajrapa/ Dhori/ Kathara/ B&K / Giridih/ Rajhara





**CENTRAL COALFIELDS LIMITED**  
**AREA : PIPARWAR**  
**COAL GRADES FOR THE YEAR 2020-21**

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for 2020-21 (ROM)
1	Piparwar	Up.Dakra	O/C	4301-4600	G10
2		Lr.Dakra	O/C	4301-4600	G10
3		Bukbuka	O/C	4601-4900	G9
4		Bukbuka (Top)	O/C	4301-4600	G10
5		Bisrampur	O/C	4601-4900	G9
6		Karkata	O/C	4601-4900	G9
7	Ashok	Up. Dakra	O/C	4601-4900	G9
8		Lr. Dakra	O/C	4001-4300	G11
9		Bukbuka	O/C	4601-4900	G9
10		Up. Bisrampur	O/C	5201-5500	G7
11		Lr. Bisrampur	O/C	4601-4900	G9
12		Karkata	O/C	4901-5200	G8
13		K-1	O/C	3701-4000	G12 (Prov)
14		K-2	O/C	4301-4600	G10 (Prov)

**GRADE FOR SIDING FOR THE YEAR 2020-21**

Sl. No.	Area	Name of the Siding	Grade for 2020-21
1	Piparwar	RCM	G8/G9/G10/G11
2		Bachra Spur	WC(NC)/G9/G10/G11





**CENTRAL COALFIELDS LIMITED**  
**AREA : NORTH KARANPURA**  
**COAL GRADES FOR THE YEAR 2020-21**

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for 2020-21 (ROM)
1	KDH	Dakra	O/C	4001-4300	G11
2		Bukbuka	O/C	4301-4600	G10
3		Bisrampur	O/C	4601-4900	G9
4	Dakra	Dakra	O/C	4001-4300	G11
5		Bukbuka	O/C	4301-4600	G10
6		Bisrampur	O/C	4601-4900	G9
7	Churi Re-Orgn.	Lr.Bachra	U/G ( Bottom 4.6 M)	5201-5500	G7
8		Up.Bachra	U/G	4601-4900	G9
9	Karkata	Dakra	O/C	--	--
10		Bukbuka	O/C	4301-4600	G10
11		Bisrampur	O/C	--	--
12	Rohini	Up.Dakra	O/C	4301-4600	G10
13		Top Lr.Dakra	O/C	3701-4000	G12
14		Midd. Lr.Dakra	O/C	3401-3700	G13
15	Purnadih	Midd.Lr.Dakra	O/C	4001-4300	G11
16		Bot.Lr.Dakra	O/C	5201-5500	G7
17		Midd.Lr.Dakra&Bot.Lr. Dakra Combined	O.C.(Qry.No.1)	3701-4000	G12(prov)

**GRADE FOR SIDING FOR THE YEAR 2020-21**

Sl. No.	Area	Name of the Siding	Grade for 2020-21
1	North Karanpura	KD (New)	G9/G10/G11/G12/ G13
2		Dakra (Manual)	G5/G6/G7/G9/G10/ G11/G12/G13
3		KD (Old)	G9/G10/G11





**CENTRAL COALFIELDS LIMITED**  
**AREA : MAGADH-AMRAPALI**  
**COAL GRADES FOR THE YEAR 2020-21**

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for 2020-21 (ROM)
1	Amrapali	I (Top)	O/C	3701-4000	G12(Prov)
2		I (T+M+B) Combined	O/C	4001-4300	G11 (Prov)
3		I (T+M)	O/C	3701-4000	G12(Prov)
4		I (Bottom)	O/C	3701-4000	G12(Prov)
5		IV	O/C	4301-4600	G10
6		III C	O/C	4301-4600	G10
7		II (Top)	O/C	3701-4000	G12 (Prov)
8		II (Bottom)	O/C	4001-4300	G11
9	Magadh	IV	O/C	4001-4300	G11
10		III	O/C	4301-4600	G10
11		II (Top)	O/C	3701-4000	G12(Prov)
12		I (Top)	O/C	4301-4600	G10
13		I (Middle)	O/C	3701-4000	G12(Prov)
14		I (Bottom)	O/C	4001-4300	G11
15		(III Bott.+ II) Combind	O/C	4001-4300	G11(Prov)

**GRADE FOR SIDING FOR THE YEAR 2020-21**

Sl. No.	Area	Name of the Siding	Grade for 2020-21
1	Magadh-Amrapali	Phulbasiya	G10/G11/G12/G13
2		Bukru	G10/G11/G13
3		Balumath	G10/G11/G13





CENTRAL COALFIELDS LIMITED  
AREA : RAJHARA  
COAL GRADES FOR THE YEAR 2020-21

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for 2020-21 (ROM)
1	Rajhara	Rajhara Bott.	O/C	4601-4900	G9
2	Tetariakhar	III/II	O/C	4001-4300	G11
3		I	O/C	4301-4600	G10

GRADE FOR SIDING FOR THE YEAR 2020-21

Sl. No.	Area	Name of the Siding	Grade for 2020-21
1	Rajhara	Rajhara	G9
2		Tori	G10/G11/G12





**CENTRAL COALFIELDS LIMITED**  
**AREA : BARKA-SAYAL**  
**COAL GRADES FOR THE YEAR 2020-21**

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for 2020-21 (ROM)
1	Bhurkunda	Up. Semana	U/G	6101-6400	G4
2		Lr.Semana	U/G	5201-5500	G7 (Prov.)
3		Up. Nakari	U/G	---	---
4		Lr. Nakari	U/G	---	---
5		Hathidari	U/G	5201-5500	G7
6		Bansgarha	U/G	5201-5500	G7
7		Argada (Sangam)	O/C	5801-6100	G5
8		Up./Lr. Sirka	O/C	6101-6400	G4
9		Argada-A	O/C(Qry.3)	5501-5800	G6
10		Sayal	O/C	4601-4900	G9
11		Up. Balkudra	O/C	4901-5200	G8
12		Lr. Balkudra	O/C	4901-5200	G8
13	Urimari U/G (Sayal-D)	Hathidari	U/G	5801-6100	G5 (Prov.)
14		Bansgarha	U/G	5201-5500	G7
15	Urimari	Saunda	O/C	4601-4900	G9
16		Up. Balkudra	O/C	4601-4900	G9
17		Lr. Balkudra	O/C	4901-5200	G8
18		Sayal	O/C New Patch Gandhania	3701-4000	G12
19		Balkudra - A	O/C	4901-5200	G8
20	N. Urimari (Birsa)	Argada	O/C	6101-6400	G4
21		Argada-A/Argada-B	O/C	5801-6100	G5
22		Argada (Top)	O/C	5201-5500	G7
23		Argada (Middle)	O/C	4901-5200	G8
24		Argada (A+B)	O/C	4901-5200	G8
25		Argada (M+B)	O/C	5201-5500	G7
26		Argada (Bottom) Comb.	O/C	4901-5200	G8
27	Hindegir	IV	U/G	---	---

**GRADE FOR SIDING FOR THE YEAR 2020-21**

Sl. No.	Area	Name of the Siding/CHP	Grade for 2020-21
1	Barka-Sayal	Bhurkunda (CHP)	G4/G5/G6/G7
2		Saunda	G5/G6/G7/G8/G9/G10/ G11/G12
3		Central Saunda	G4/G5/G6/G7





CENTRAL COALFIELDS LIMITED

AREA : ARGADA

COAL GRADES FOR THE YEAR 2020-21

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for 2020-21 (ROM)
1	Gidi-A	Argada	O/C	5501-5800	G6
2		Argada-A	O/C	4901-5200	G8
3		Argada-B	O/C	4901-5200	G8
4	Religara	Argada	O/C	5501-5800	G6
5		Argada-A	O/C	4901-5200	G8
6		Argada-B	O/C	4601-4900	G9
7		Argada-C	O/C	4901-5200	G8
8		Argada-D	O/C	4901-5200	G8
9	Gidi-C	Argada-A	O/C	---	---
10		Argada-B	O/C	5501-5800	G6
11		Argada-C&D	O/C	5501-5800	G6
12		Argada-LMNO(Comb.)	O/C	4001-4300	G11
13	Sirka	<u>Argada/</u> Argada-A/Sirka	O/C	5801-6100	G5

GRADE FOR SIDING FOR THE YEAR 2020-21

Sl. No.	Area	Name of the Siding/CHP	Grade for 2020-21
1	Argada	Gidi-A(CHP)	G5/G6/G7/G8/G11
2		Gidi-Washery	WC (NC)
3		Sirka(CHP)	G5/G6/G7/G8/G11





**CENTRAL COALFIELDS LIMITED**

**AREA : KUJU**

**COAL GRADES FOR THE YEAR 2020-21**

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for 2020-21 (ROM)
1	Ara	XI	O/C	-	WIII
2		X	O/C	-	WIII
3		V	O/C	-	WIII
4		VA	O/C	-	WIII
5		IV	U/G & O/C (Mixed)	-	WIV
6		III	O/C 16B Qr.	-	WIV
7	Sarubera	V/VA/IV/III	O/C	-	WIV
8		II/IIA	U/G 3C/10 No.Inc.	-	WIV
9		I	U/G/8ABC/3CInc.	-	W-V(Prov.)
10	Kuju	X(Top/Midd/Bott.)	O/C(Hesagora)	5801-6100	G5
11		X	O/C	5501-5800	G6
12	Pundi	VII	O/C		WIII
13		V	O/C		WIII
14		IV	O/C		WIV
15		III	O/C	----	----
16	Karma	VII	O/C	5501-5800	G6
17		VI	O/C	5201-5500	G7
18	Topa	XI	O/C	-	WIV
19		IX/X	O/C	-	WIV
20		VIII	O/C		WIV
21		VI/VII	O/C(Topa Re-Org.)		WIV
22		V	U/G&O/C (Topa Re-Org.)	-	WIV
23		VA	O/C(Topa Re-Org.)	-	WIII
24		IV/III	O/C(Topa Re-Org.)		WIV
25	Pindra	IX	U/G	-	WIV
26		VII/VI	U/G & O/C (Mixed)		WIII
27		V	O/C	-	WIII
28		IV/III	O/C	-	WIV

**GRADE FOR SIDING FOR THE YEAR 2020-21**

Sl. No.	Area	Name of the Siding	Grade for 2020-21
1	Kuju	N.R	WIII/WIV/WVI/ G5/G6/G7/G8/G9/ G11/G12
2		Kuju New Siding	WIII/WIV/WVI/ G5/G6/G7/G8/G9/ G10/G11/G12





**CENTRAL COALFIELDS LIMITED**  
**AREA : HAZARIBAG**  
**COAL GRADES FOR THE YEAR 2020-21**

Sl. No.	Colliery	Coal Seam	Location	Grade for 2020-21 (ROM)
1	Tapin (S)	VIII	U/G	WII
2		VIII/VII (Combined)	O/C	WIII
3		VIIIA/VIIIB/VIIA/VIIIB/VI	O/C	WIV
4		IV/III	O/C	WIV
5	Tapin	II	O/C	WIV
6		IV/V	O/C	WIV
7		VA	O/C	WIV
8		VII	O/C	WII
9		VIIA/VIIB (Combined)	O/C	WIV
10		VIII	O/C	WIII
11	KUGP	VA	U/G	WII
12		VIII	U/G	WIV
13	Jharkhand	V	OC	WIV
14		IV/III	O/C	WIV
15		VA	O/C	WIV
16	KOCF	V	O/C	WIV
17		VA/VI/VII (Comb)	O/C	--
18	Laiyo	XI	U/G	WIV
19		V	U/G	WIII
20		VA	U/G	WIV
21	Parej-East	IV	O/C	WIV
22		III	O/C	WIV
23		II Top	O/C	WIV
24		II Bott.	O/C	WIV

**COAL [STEAM(MANNUALLY PICKED)] GRADE**

Sl. No.	Area	Colliery	Coal Seam	Grade for 2020-21 (STEAM)
1	Hazaribag	Parej East	II Top	WIII

**GRADE FOR SIDING FOR THE YEAR 2020-21**

Sl.	Area	Name of the Siding	Grade for 2020-21
1	Hazaribag	Chainpur	WC (C)/WC (P)/G5





**CENTRAL COALFIELDS LIMITED**  
**AREA : RAJRAPPA**  
**COAL GRADES FOR THE YEAR 2020-21**

Sl. No.	Colliery	Coal Seam	Location	Grade for 2020-21 (ROM)
1	Rajrappa	VIII A	O/C	WII
2		VII Top	O/C	WII
3		VII Bottom	O/C	WIII
4		VI	O/C	WIV

**GRADE FOR SIDING FOR THE YEAR 2020-21**

Sl. No.	Area	Name of the Siding/CHP	Grade for 2020-21
1	Rajrappa	Rajrappa Washery	WC(CC/PC)/WIV/WIII





**CENTRAL COALFIELDS LIMITED**  
**AREA : KATHARA**  
**COAL GRADES FOR THE YEAR 2020-21**

Sl. No.	Colliery	Coal Seam	Location	Grade for 2020-21 (ROM)
1	Kathara	Kargali	O/C	WII
2		Kathara	O/C	WIII
3	Jarangdih	Karo Maj.VIII	O/C	WIV
4		Karo Maj.X	O/C	WIV
5		Bermo	O/C	WIV
6	Sawang (O/C)	Bermo	O/C	WIV
7		Up.Karo	O/C	WIV
8		Lr.Karo	O/C	WIV
9	Govindpur Phase-II	Bermo	O/C	WIV
10		Up. Karo X	O/C	WIV
11		Lr. Karo VIII	O/C	WIV
12		Lr. Karo VII (Top)	O/C	WIV
13		Lr. Karo VII (Bot.)	O/C	W-V
14		Lr. Karo VI	O/C	WIV
15	Govindpur	JRD 10'	U/G (3&4 Inc.)	WIV
16		JRD 6'	U/G (5&6 Inc)	WIII
17		JRD 18'	U/G (1&2 Inc.)	WIV
18		Kathara	U/G	WIII
19		Swang-C	U/G	WIV
20		Kargali Top/Bot	O/C	WIII
21		Bermo	O/C	WIV

**GRADE FOR SIDING FOR THE YEAR 2020-21**

Sl. No.	Area	Name of the Siding/CHP	Grade for 2020-21
1	Kathara	Jarangdih PF-II	W-V/WIV/WIII/ WC(P)/G8/G9/G10
2		Kathara (Washery)	WC(C)/WC(P)
3		Sawang (Washery)	WC(C)/WC(P)





**CENTRAL COALFIELDS LIMITED**  
**AREA : BOKARO & KARGALI**  
**COAL GRADES FOR THE YEAR 2020-21**

Sl. No.	Colliery	Coal Seam	Location	Grade for 2020-21 (ROM)
1	Bokaro	Kargali	O/C	WII
2		Bermo	O/C	WIV
3	Kargali	Kargali	O/C (Dhori Patch)	WIII
4	Karo-I Project	Karo XI	O/C	WIV
5		Karo X	O/C	WIV
6		Karo IX	O/C	WIV
7		Karo VIII	O/C	WIV
8		Karo VII & VI	O/C	W-V
9		Karo VIII, VII & VI (Comb.)	O/C	W-V
10		Karo V	U/G	WIV
11	AKK OCP	Karo X	O/C	WIV
12		Karo VIII	O/C	W-V
13		Karo VII & VI	O/C	W-V
14		Karo V	U/G	WIV
15		Karo III	U/G	WIII
16	Karo Proj. II (KSP Phase-II)	Karo V	U/G	WIV

**GRADE FOR SIDING FOR THE YEAR 2020-21**

Sl. No.	Area	Name of the Siding/CHP	Grade for 2020-21
1	Bokaro & Kargali	Jarangdih PF-I	WIV/W-V/G8/G9/G10
2		Kargali (Washery PF-II) Karo I	WIV/W-V/G8/G9/G10
3		Kargali (Washery)	WC(C)/WC(P)





**CENTRAL COALFIELDS LIMITED**  
**AREA : DHORI**  
**COAL GRADES FOR THE YEAR 2020-21**

Sl. No.	Colliery	Coal Seam	Location	Grade for 2020-21 (ROM)
1	Sel.Dhori Open Cast Mine	Up.Karo Maj.(IX-X)	O/C	WIII
2		Karo Maj. VIII	O/C	WIV
3		Karo Maj. VI/VII	O/C	WIV
4		Karo Maj VIII/VII/VI (Comb)	O/C	W-V
5	Tarmi	Karo Maj V	O/C	W-VI
6		Karo Spl.III	O/C	WIII
7	Amlagated Amlu Dhori Open Cast Mine	Up.Karo Maj. (IX-X)	O/C	WIII
8		Karo Maj. VIII	O/C	WIV
9		Karo Maj. VI/VII	O/C	WIV
10		Karo Maj VIII/VII/VI (Comb)	O/C	W-V (Prov.)
11		Bermo	O/C	WIV
12	Dhori (Khas)	Karo Spl.III (Chapri)	U/G	WII
13		Karo Bott. (Pichari)	O/C	WIV

**COAL [STEAM(MANNUALLY PICKED)] GRADES**  
**FOR THE YEAR 2020-21**

Sl. No.	Area	Colliery	Coal Seam	Grade fo 2020-21 (STEAM)
1	Dhori	Sel.Dhori Open Cast Mine	VIII, VII/VI	WIII
2		Tarmi	Karo Maj.V	WIII
3		Amlagated Amlu Dhori Open Cast Mine	VIII, VII/VI	WIII

**GRADE FOR SIDINGS FOR THE YEAR 2020-21**

Sl. No.	Area	Name of the Siding	Grade for 2020-21
1	Dhori	Tarmi	WIV/W-V/G8/G10
2		Sel.Dhori	WIII/WIV
3		Dhori L-1	WIII/WIV/W-V/G8/G10
4		Dhori L-2	WIV/W-V/G8/G10





**CENTRAL COALFIELDS LIMITED**  
**AREA : GIRIDIH**  
**COAL GRADES FOR THE YEAR 2020-21**

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for 2020-21 (ROM)
1	Giridih	Khandia IV	O/C	---	---
2		Khandia III/II/I	O/C)PDS/Kabribad	4901-5200	G8
3		Balihill	O/C	4301-4600	G10
4		Jatkuti	O/C	4301-4600	G10

**GRADE FOR SIDING FOR THE YEAR 2020-21**

Sl. No.	Area	Name of the Siding	Grade for 2020-21
1	Giridih	Giridih (CP)	G8/G10



# COAL GRADE SPECIFICATION

## NON-COKING COAL :

<u>Grade</u>	<u>GCV Bands (in K.Cal./Kg.)</u>	<u>Grade</u>	<u>GCV Bands (in K.Cal./Kg.)</u>
G1	: Above 7000	G10	: 4301 - 4600
G2	: 6701 - 7000	G11	: 4001 - 4300
G3	: 6401 - 6700	G12	: 3701 - 4000
G4	: 6101 - 6400	G13	: 3401 - 3700
G5	: 5801 - 6100	G14	: 3101 - 3400
G6	: 5501 - 5800	G15	: 2801 - 3100
G7	: 5201 - 5500	G16	: 2501 - 2800
G8	: 4901 - 5200	G17	: 2201 - 2500
G9	: 4601 - 4900		

## COKING COAL :

<u>Grade</u>	<u>Ash Content %</u>
St. I	: Ash Content Not Exceeding 15%
St. II	: Ash Content Exceeding 15% But Not Exceeding 18%
W-I	: Ash Content Exceeding 18% But Not Exceeding 21%
W-II	: Ash Content Exceeding 21% But Not Exceeding 24%
W-III	: Ash Content Exceeding 24% But Not Exceeding 28%
W-IV	: Ash Content Exceeding 28% But Not Exceeding 35%
W-V	: Ash Content Exceeding 35% But Not Exceeding 42%
W-VI	: Ash Content Exceeding 42% But Not Exceeding 49%

St. = Steel Grade  
W = Washery Grade  
GCV = Gross Calorific Value  
ROM = Run-off-Mine