

COAL GRADES

2021 - 2022



Quality Management Department
CENTRAL COALFIELDS LIMITED

(A Miniratna Company)

DARBHANGA HOUSE, RANCHI - 834029



CENTRAL COALFIELDS LIMITED

DARBHANGA HOUSE, RANCHI
(A subsidiary of Coal India Limited)



Ref. No. : CCL/HQ/QM/Annual Grade/2021-22/731
Dated : 31.03.2021

To
The Coal Controller,
Office of the Coal Controller,
Ministry of Coal, Govt. of India,
1, Council House, Street,
Kolkata-700001

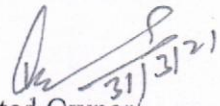
Sub. : **Declaration of Grades of Coal Seams being worked in Central Coalfields Limited for the year 2021-22**

Dear Sir,

In reference to your letter No. CC/Tech/Ann.Gr./CCL/2021-22 dated 30th March, 2021 and in pursuance of provisions of sub-rule (2) of rule 4 of Colliery Control Rules, 2004 and also sub-rule 2 of rule 18B of Coal Mines (Conservation and development) Amendment Rules 2011, the Grades of Coal seams being worked at different Collieries of Central Coalfields Limited for the year 2021-22 are being declared and enclosed herewith.

These Grades will have effect from 00.00 Hrs. of 1st April 2021.

Yours faithfully,


Nominated Owner/
Director (Tech)(Oprns)

Encl. : As above.

Index

Sl. No.	Area	Page No.
1	Piparwar	1
2	North Karnpura	2
3	Amrapali Chandragupta	3
4	Magadh Sanghmitra	4
5	Rajhara	5
6	Barka-Sayal	6
7	Argada	7
8	Kuju	8
9	Hazaribag	9
10	Rajrappa	10
11	Kathara	11
12	Bokaro & Kargali	12
13	Dhori	13
14	Giridih	14

Note :

1. Magadh Amrapali Area bifurcated in two areas i.e. Amrapali Chandragupta and Magadh Sanghmitra vide ref. no. CMD/CCL/TS-CMD/O.O./149 dtd. 31/10/2020.
2. Prov. – Indicates Provisional Grade .

CENTRAL COALFIELDS LIMITED
AREA : PIPARWAR
COAL GRADES FOR THE YEAR 2021-22

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for 2021-22 (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	4901-5200	G8
11		Lr. Bisrampur	O/C	4901-5200	G8
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 2021-22

Sl. No.	Area	Name of the Siding	Grade for 2021-22
1	Piparwar	RCM	G7/G8/G9/G10/G11/G12
2		Bachra Spur	WC(NC)/G9/G10/G11

CENTRAL COALFIELDS LIMITED
AREA : NORTH KARANPURA
COAL GRADES FOR THE YEAR 2021-22

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for 2021-22 (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

GRADE FOR SIDING FOR THE YEAR 2021-22

Sl. No.	Area	Name of the Siding	Grade for 2021-22
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 : AMRAPALI-CHANDRAGUPTA
COAL GRADES FOR THE YEAR 2021-22

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for 2021-22 (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	3401-3700	G13
4		I (Bottom)	O/C	3701-4000	G12
5		IV	O/C	4001-4300	G11
6		III C	O/C	4301-4600	G10 (Prov.)
7		II (Top)	O/C	3701-4000	G12
8		II (Bottom)	O/C	4001-4300	G11(Prov.)

GRADE FOR SIDING FOR THE YEAR 2021-22

Sl. No.	Area	Name of the Siding	Grade for 2021-22
1	Amrapali- Chandragupta	Shivpur (Line No.4)	G10/G11/G12

CENTRAL COALFIELDS LIMITED
AREA : MAGADH SANGHMITRA
COAL GRADES FOR THE YEAR 2021-22

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for 2021-22 (ROM)
1	Magadh	IV	O/C	4001-4300	G11(Prov.)
2		III	O/C	4001-4300	G11 (Prov.)
3		II (Top)	O/C	3401-3700	G13(Prov.)
4		I (Top)	O/C	4301-4600	G10(Prov.)
5		I (Middle)	O/C	3701-4000	G12
6		I (Bottom)	O/C	4001-4300	G11
7		(III Bottom+II) Comb.	O/C	4001-4300	G11(Prov.)

GRADE FOR SIDINGS FOR THE YEAR 2021-22

Sl. No.	Area	Name of the Siding	Grade for 2021-22
1	Magadh-Sanghmitra	BALUMATH	G10/G11/G13
2		BUKRU	G10/G11/G13
3		PHULBASIYA	G10/G11/G12/G13

CENTRAL COALFIELDS LIMITED
AREA : RAJHARA
COAL GRADES FOR THE YEAR 2021-22

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for 2021-22 (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 2021-22

Sl. No.	Area	Name of the Siding	Grade for 2021-22
1	Rajhara	Rajhara	G9
2		Tori	G10/G11/G12

CENTRAL COALFIELDS LIMITED
AREA : BARKA-SAYAL
COAL GRADES FOR THE YEAR 2021-22

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for 2021-22 (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 Gandhanian	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 2021-22

Sl. No.	Area	Name of the Siding/CHP	Grade for 2021-22
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 2021-22

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for 2021-22 (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-L,M,N,O(Comb.)	O/C	4001-4300	G11
13	Sirka	<u>Argada/</u> <u>Argada-A/Sirka</u>	O/C	5801-6100	G5

GRADE FOR SIDING FOR THE YEAR 2021-22

Sl. No.	Area	Name of the Siding/CHP	Grade for 2021-22
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 2021-22

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for 2021-22 (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 2021-22

Sl. No.	Area	Name of the Siding	Grade for 2021-22
1	Kuju	N.R	WIII/WIV/WVI/ G5/G6/G7/G8/G9/ G11/G12
2		Kuju New Siding	WIII/WIV/WV/WVI/ G5/G6/G7/G8/G9/ G10/G11/G12

CENTRAL COALFIELDS LIMITED
AREA : HAZARIBAG
COAL GRADES FOR THE YEAR 2021-22

Sl. No.	Colliery	Coal Seam	Location	Grade for 2021-22 (ROM)
1	Tapin (S)	VIII	U/G	WII
2		VII	O/C	WII
3		VIIIA/VIIIB/VIIA/VIIB/VI	O/C	WIV
4		VA	O/C	WIV
5		IV/III	O/C	WIV
6	Tapin	II	O/C	WIV
7		IV/V	O/C	WIV
8		VA	O/C	WIV
9		VII	O/C	WII
10		VIIA/VIIB (Combined)	O/C	WIV
11		VIII	O/C	WIII
12		IXA	O/C	WII
13	KUGP	VA	U/G	WII
14		VIII	U/G	WIV
15	Jharkhand	V	OC	WIV
16		IV/III	O/C	WIV
17		VA	O/C	WIV
18	KOCF	V	O/C	WIV
19		VA/VI/VII (Comb)	O/C	---
20	Laiyo	XI	U/G	WIV
21		V	U/G	WIII
22		VA	U/G	WIV
23	Parej-East	IV	O/C	WIV
24		III	O/C	WIV
25		II Top	O/C	WIV
26		II Bott.	O/C	WIV

COAL [STEAM(MANNUALLY PICKED)] GRADE

Sl. No.	Area	Colliery	Coal Seam	Grade for 2021-22
1	Hazaribag	Parej East	II Top	WIII

GRADE FOR SIDING FOR THE YEAR 2021-22

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 2021-22

Sl. No.	Colliery	Coal Seam	Location	Grade for 2021-22 (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
5		V	O/C	WIV

GRADE FOR SIDING FOR THE YEAR 2021-22

Sl. No.	Area	Name of the Siding/CHP	Grade for 2021-22
1	Rajrappa	Rajrappa Washery	WC(CC/PC)/WIV/WIII

CENTRAL COALFIELDS LIMITED
AREA : KATHARA
COAL GRADES FOR THE YEAR 2021-22

Sl. No.	Colliery	Coal Seam	Location	Grade for 2021-22 (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	WV
12		Lr. Karo VII (Top)	O/C	WIV
13		Lr. Karo VII (Bot.)	O/C	W-V
14		Lr. Karo VI	O/C	W-V
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 2021-22

Sl. No.	Area	Name of the Siding/CHP	Grade for 2021-22
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 2021-22

Sl. No.	Colliery	Coal Seam	Location	Grade for 2021-22 (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-IV
14		Karo V	U/G	WIV
15		Karo III	U/G	WIII
16	Karo Proj.II (KSP Phase-II)	Karo V	U/G	WIV

COAL [STEAM(MANNUALLY PICKED)] GRADES
FOR THE YEAR 2021-22

Sl. No.	Area	Colliery	Coal Seam	Grade for 2021-22
1	B&K	AKK OCP	VIII, VII & VI	WIII
2		Karo OCP	VIII, VII & VI (Comb.)	WIII
3		Karo OCP	X	WII

GRADE FOR SIDING FOR THE YEAR 2021-22

Sl.	Area	Name of the Siding/CHP	Grade for 2021-22
1	Bokaro & Kargali	Jarangdih PF-I	WIV/W-V/G8/G9/G10
2		Kargali (Washery PF-II) Karo	WIV/W-V/G8/G9/G10
3		Kargali (Washery)	WC(C)/WC(P)

CENTRAL COALFIELDS LIMITED
AREA : DHORI
COAL GRADES FOR THE YEAR 2021-22

Sl. No.	Colliery	Coal Seam	Location	Grade for 2021-22 (ROM)
1	Sel.Dhori Open Cast Mine	Karo Maj.(IX-X)	O/C	WIII
2		Karo Maj. VIII	O/C	WIV
3		Karo Maj. VII&VI	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	Amlagamated Amlo Dhori Open Cast Mine	Karo Maj. (IX-X)	O/C	WIII
8		Karo Maj. VIII	O/C	WIV
9		Karo Maj. VII&VI	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 2021-22

Sl. No.	Area	Colliery	Coal Seam	Grade fo 2021-22 (STEAM)
1	Dhori	Sel.Dhori Open Cast Mine	VIII, VII&VI	WIII
2		Tarmi	V	WIII
3		Amlagamated Amlo Dhori Open Cast Mine	VIII, VII&VI	WIII

GRADE FOR SIDING FOR THE YEAR 2021-22

Sl. No.	Area	Name of the Siding	Grade for 2021-22
1	Dhori	Tarmi	WVI/WV/WIV/G8/G10
2		Sel.Dhori	WIII/WIV
3		Dhori L-1	WIII/WIV/WV/G8/G10
4		Dhori L-2	WIV/W-V/G8/G10

CENTRAL COALFIELDS LIMITED
AREA : GIRIDIH
COAL GRADES FOR THE YEAR 2021-22

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for 2021-22 (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 2021-22

Sl. No.	Area	Name of the Siding	Grade for 2021-22
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