

# **COAL GRADES**

## **2023 - 2024**



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/Ann.Gr./2023-24/1713

Dated : 29-03-2023

To  
The Coal Controller,  
Coal Controller Organisation,  
Scope Minar 5<sup>th</sup> Floor,  
Core -II Laxmi Nagar,  
Delhi -110092

Sub. : **Declaration of Grades of Coal Seams being worked in Central Coalfields Limited for the year 2023-24**

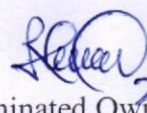
Dear Sir,

In reference to your letter no. CC/Tech/Annual Grade/CCL/2023-24/E-356254 dated, the 28<sup>th</sup> March, 2023 and in pursuance of rule (4) of colliery control (amendment) rule 2021, Govt. of India based on Systematic Sampling & Scientific Analysis, the grades of coal seams being worked at different collieries of Central Coalfields Limited for the Year 2023-24 are being declared and enclosed herewith.

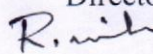
These grades will have effect from 00:00 hrs of 1<sup>st</sup> April 2023.

Encl.: As above.

Yours faithfully,

  
29/03/23

Nominated Owner/  
Director (Tech/Oprns)

  
20/3/23

Distribution :- (Through E mail)

1. OSD, CCO, CMPDIL, Gondwana Place, Kanke Road, Ranchi.
2. TS to CMD, CCL, Ranchi.
3. TS to Director (Tech.)(Oprns.), CCL, Ranchi.
4. General Manager (Oprns.), CCL, Ranchi.
5. General Manager (M&S), CCL, Ranchi.
6. General Manager, NK, A-C, M-S, Piparwar, Barka-Sayal, Argada, Rajrappa, Hazaribagh, Kuju,Rajhara,Dhori, B&K, Kathara area

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CENTRAL COALFIELDS LIMITED  
AREA : PIPARWAR  
COAL GRADES FOR THE YEAR 2023-24

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for Yr.2023-24 (ROM)
1	Piparwar	Up.Dakra	O/C	4301-4600	G10 (P)
2		Lr.Dakra	O/C	4301-4600	G10 (P)
3		Bukbuka	O/C	4601-4900	G9 (P)
4		Bukbuka (Top)	O/C	4301-4600	G10 (P)
5		Bisrampur	O/C	4601-4900	G9 (P)
6		Karkata	O/C	4601-4900	G9 (P)
7	Ashok	Up. Dakra	O/C	4601-4900	G9(P)
8		Lr. Dakra	O/C	4001-4300	G11 (P)
9		Bukbuka	O/C	4601-4900	G9 (P)
10		Up. Bisrampur	O/C	4901-5200	G8 (P)
11		Lr. Bisrampur	O/C	4901-5200	G8 (P)
12		Karkata	O/C	4901-5200	G8 (P)
13		K-1	O/C	3701-4000	G12 (P)
14		K-2	O/C	4301-4600	G10 (P)

GRADE FOR SIDING FOR THE YEAR 2023-24

Sl. No.	Area	Name of the Siding	Grade for 2023-24
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 2023-24

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for Yr.2023-24 (ROM)
1	KDH	Dakra	O/C	4001-4300	G11 (P)
2		Bukbuka	O/C	4301-4600	G10(P)
3		Bisrampur	O/C	4601-4900	G9(P)
4	Dakra	Dakra	O/C	4001-4300	G11 (P)
5		Bukbuka	O/C	4301-4600	G10(P)
6		Bisrampur	O/C	4601-4900	G9(P)
7	Churi Re-Orgn.	Lr.Bachra	U/G ( Bottom 4.6 M)	5201-5500	G7(P)
8		Up.Bachra	U/G	4601-4900	G9(P)
9	Karkata	Dakra	O/C	--	--
10		Bukbuka	O/C	4301-4600	G10 (P)
11		Bisrampur	O/C	--	--
12	Rohini	Up.Dakra	O/C	4301-4600	G10(P)
13		Top Lr.Dakra	O/C	3701-4000	G12(P)
14		Midd. Lr.Dakra	O/C	3701-4000	G12
15	Purnadih	Midd.Lr.Dakra	O/C	4001-4300	G11(P)
16		Bot.Lr.Dakra	O/C	5201-5500	G7(P)

GRADE FOR SIDING FOR THE YEAR 2023-24

Sl. No.	Area	Name of the Siding	Grade for 2023-24
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-CHANDRAGUPT  
COAL GRADES FOR THE YEAR 2023-24

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for Yr.2023-24 (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 (P)
4		I (Bottom)	O/C	3701-4000	G12 (P)
5		IV	O/C	4001-4300	G11 (P)
6		III C	O/C	4301-4600	G10 (P)
7		II (Top)	O/C	3701-4000	G12 (P)
8		II (Bottom)	O/C	4001-4300	G11 (P)

GRADE FOR SIDING FOR THE YEAR 2023-24

Sl. No.	Area	Name of the Siding	Grade for 2023-24
1	Amrapali- Chandragupta	Shivpur (Line No.4)	G10/G11/G12/G13
2		Shivpur (Line No.1)	G10/G11/G12/G13

CENTRAL COALFIELDS LIMITED  
AREA : MAGADH SANGHMITRA  
COAL GRADES FOR THE YEAR 2023-24

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for Yr.2023-24 (ROM)
1	Magadh	IV	O/C	4001-4300	G11 (P)
2		III	O/C	4001-4300	G11 (P)
3		II (Top)	O/C	3701-4000	G12 (P)
4		I (Top)	O/C	4301-4600	G10(P)
5		I (Middle)	O/C	3701-4000	G12(P)
6		I (Bottom)	O/C	4001-4300	G11
7		(III Bottom+II) Comb.	O/C	4001-4300	G11(P)

GRADE FOR SIDING FOR THE YEAR 2023-24

Sl. No.	Area	Name of the Siding	Grade for 2023-24
1	Magadh-Sanghmitra	BALUMATH (Line No.4)	G10/G11/G12/G13
2		BUKRU (Line No.4)	G10/G11/G12/G13
3		PHULBASIYA	G10/G11/G12/G13

CENTRAL COALFIELDS LIMITED  
AREA : RAJHARA  
COAL GRADES FOR THE YEAR 2023-24

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for Yr.2023-24 (ROM)
1	Rajhara	Rajhara Bott.	O/C	4601-4900	G9 (P)
2	Tetariakhar	III/II	O/C	4301-4600	G10
3		I	O/C	4301-4600	G10 (P)

GRADE FOR SIDING FOR THE YEAR 2023-24

Sl. No.	Area	Name of the Siding	Grade for 2023-24
1	Rajhara	Rajhara	G9
2		Tori	G10/G11/G12



CENTRAL COALFIELDS LIMITED  
AREA : BARKA-SAYAL  
COAL GRADES FOR THE YEAR 2023-24

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for Yr.2023-24 (ROM)
1	Bhurkunda	Up. Semana	U/G	6101-6400	G4 (P)
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(P)
6		Bansgarha	U/G	5201-5500	G7(P)
7		Argada (Sangam)	O/C	5801-6100	G5(P)
8		Up./Lr. Sirka	O/C	6101-6400	G4(P)
9		Argada-A	O/C(Qry.3)	5501-5800	G6(P)
10		Sayal	O/C	4601-4900	G9(P)
11		Up. Balkudra	O/C	4901-5200	G8(P)
12		Lr. Balkudra	O/C	4901-5200	G8 (P)
13	Urimari U/G (Sayal-D)	Hathidari	U/G	5801-6100	G5 (Prov.)
14		Bansgarha	U/G	5201-5500	G7 (P)
15	Sayal-D OCP	Sayal	O/C	4301-4600	G10
16		Saunda	O/C	4601-4900	G9
17	Urimari	Saunda	O/C	4601-4900	G9 (P)
18		Up. Balkudra	O/C	4601-4900	G9(P)
19		Lr. Balkudra	O/C	4901-5200	G8 (P)
20		Sayal	O/C New Patch Gandhania	3701-4000	G12(P)
21		Balkudra - A	O/C	4901-5200	G8(P)
22	N. Urimari (Birsa)	Argada	O/C	6101-6400	G4(P)
23		Argada-A/Argada-B	O/C	5801-6100	G5(P)
24		Argada (Top)	O/C	5201-5500	G7(P)
25		Argada (Middle)	O/C	4901-5200	G8(P)
26		Argada (A+B)	O/C	4901-5200	G8 (P)
27		Argada (M+B)	O/C	5201-5500	G7(P)
28		Argada (Bottom) Comb.	O/C	4901-5200	G8(P)
29	Hindegir	IV	U/G	---	---

STEAM COAL GRADES  
FOR THE YEAR 2023-24

Sl. No.	Area	Colliery	Coal Seam	GCV Band	Grade for 2023-24 (STEAM)
1	Barka-Sayal	Birsa OCP	Argada (A+B)	5501-5800	G6
2		Birsa OCP	Argada (M+B)	6101-6400	G4(Prov.)
3		Urimari OCP	Upper Balkudra	5501-5800	G6(Prov.)

GRADE FOR SIDING FOR THE YEAR 2023-24

Sl. No.	Area	Name of the Siding/CHP	Grade for 2023-24
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 2023-24

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for Yr.2023-24 (ROM)
1	Gidi-A	Argada	O/C	5501-5800	G6 (P)
2		Argada-A	O/C	4901-5200	G8 (P)
3		Argada-B	O/C	4901-5200	G8 (P)
4	Religara	Argada	O/C	5501-5800	G6 (P)
5		Argada-A	O/C	4901-5200	G8 (P)
6		Argada-B	O/C	4601-4900	G9
7		Argada-C	O/C	4901-5200	G8 (P)
8		Argada-D	O/C	4901-5200	G8 (P)
9	Gidi-C	Argada-A	O/C	---	---
10		Argada-B	O/C	5501-5800	G6 (P)
11		Argada-C&D	O/C	5501-5800	G6 (P)
12		Argada-L,M,N,O(Comb.)	O/C	4001-4300	G11 (P)
13	Sirka	Argada/ Argada-A/Sirka	O/C	5801-6100	G5 (P)

STEAM COAL GRADES

FOR THE YEAR 2023-24

Sl. No.	Area	Colliery	Coal Seam	GCV Band	Grade for Yr.2023-24 (STEAM)
1	ARGADA	Religara	Argada-A	5801-6100	G5
2			Argada-B	5501-5800	G6
3			Argada-C	5501-5800	G6
4			Argada-D	5501-5800	G6
		Gidi-A	Argada-A	5801-6100	G5 (Prov.)
5		Gidi-C	Argada (LMNO)	5501-5800	G6

GRADE FOR SIDING FOR THE YEAR 2023-24

Sl.	Area	Name of the	Grade for 2023-24
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 2023-24**

Sl. No.	Colliery	Coal Seam	Location	GCV Band	Grade for Yr.2023-24 (ROM)
1	Ara	XI	O/C	-	WIII (P)
2		X	O/C	-	WIII (P)
3		V	O/C	-	WIII (P)
4		VA	O/C	-	WIII (P)
5		IV	U/G & O/C (Mixed)	-	WIV (P)
6		III	O/C 16B Qr.	-	WIV (P)
7	Sarubera	V/VA/IV/III	O/C	-	WIV (P)
8		II/IIA	U/G 3C/10 No.Inc.	-	WIV (P)
9		I	U/G/8ABC/3Inc.	-	W-V(Prov.)
10	Kuju	X(Top/Midd/Bott.)	O/C(Hesagora)	5801-6100	G5 (P)
11		X	O/C	5501-5800	G6 (P)
12	Pundi	VII	O/C		WIII (P)
13		V	O/C		WIII (P)
14		IV	O/C		WIV (P)
15		III	O/C	----	----
16	Karma	VII	O/C	5501-5800	G6
17		VI	O/C	5201-5500	G7 (P)
18	Topa	XI	O/C	-	WIV (P)
19		IX/X	O/C	-	WIV (P)
20		VIII	O/C	-	WIV (P)
21		VII	O/C(Topa Re-Org.)	-	ST. II
22		VI	O/C(Topa Re-Org.)	-	W-IV (P)
23		V	U/G&O/C (Topa Re-Org.)	-	WIV (P)
24		VA	O/C(Topa Re-Org.)	-	W-III (P)
25		IV/III	O/C(Topa Re-Org.)	-	WIV (P)
26	Pindra	IX	U/G	-	WIV (P)
27		VII/VI	U/G & O/C (Mixed)	-	WIII (P)
28		V	O/C	-	WIII (P)
29		IV/III	O/C	-	WIV (P)

**STEAM COAL GRADES**

**FOR THE YEAR 2023-24**

Sl. No.	Area	Colliery	Coal Seam	GCV Band K.Cal/Kg	Grade for 2023-24(STEAM)
1	KUJU	Topa	V	---	WII
2		Karma	VII	6101-6400	G4

**GRADE FOR SIDING FOR THE YEAR 2023-24**

Sl. No.	Area	Name of the Siding	Grade for 2023-24
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 2023-24**

Sl. No.	Colliery	Coal Seam	Location	Grade for Yr.2023-24 (ROM)
1	Tapin (S)	VIII	U/G	WII (P)
2		VII	O/C	W-II (P)
3		VIIIA/VIIIB/VI	O/C	WIV (P)
4		VIIA/VIIB	O/C	W-IV (P)
6		VA	O/C	WIV (P)
7		IV/III	O/C	WIV (P)
8		IV/V	O/C	WIV (P)
9		Tapin	II	O/C
10	IV/V		O/C	WIV (P)
11	VA		O/C	WIV (P)
12	VII		O/C	W-II (P)
13	VIIA/VIIB (Combined)		O/C	W-IV (P)
14	VIII		O/C	WIII (P)
15	IXA		O/C	WII (P)
16	IX		O/C	WII (P)
17	KUGP	VA	U/G	WII (P)
18		VIII	U/G	WIV (P)
19	Jharkhand	V	OC	WIV (P)
20		IV/III	OC	W-IV (P)
22		VA	O/C	WIV (P)
23	KOCP	V	O/C	WIV (P)
24		VA/VI/VII (Comb)	O/C	---
25	Laiyo	XI	U/G	WIV (P)
26		V	U/G	WIII (P)
27		VA	U/G	WIV (P)
28	Parej-East	IV	O/C	W-IV (P)
29		III	O/C	WIV (P)
30		II Top	O/C	WIV (P)
31		II Bott.	O/C	WIV (P)

**STEAM COAL GRADES**  
**FOR THE YEAR 2023-24**

Sl. No.	Area	Colliery	Coal Seam	Grade for 2023-24 (STEAM)
1	Hazaribag	PareJ East	II Top	WIII
2			II Bottom	WIII (Prov.)
3			III	St.II
4			IV	W-I (Prov.)
5		Tapin (S)	IV/V	WII
6			VA	WII
7		Tapin	IV/V	WII
8			VA	WI
9			VIIA/VIIB (Comb)	WI
10		Jharkhand	IV	WII
11			III	WII

**GRADE FOR SIDING FOR THE YEAR 2023-24**

Sl.	Area	Name of the Siding	Grade for 2023-24
1	Hazaribag	Chainpur	WC (C)/WC (P)/G5

CENTRAL COALFIELDS LIMITED  
AREA : RAJRAPPA  
COAL GRADES FOR THE YEAR 2023-24

Sl. No.	Colliery	Coal Seam	Location	Grade for Yr.2023-24 (ROM)
1	Rajrappa	VIII A	O/C	WII (P)
2		VII Top	O/C	W-II (P)
3		VII Bottom	O/C	W-III (P)
4		VI	O/C	WIV (P)
5		V	O/C	WIV (P)

STEAM COAL GRADES  
FOR THE YEAR 2023-24

Sl. No.	Area	Colliery	Coal Seam	Grade for 2023-24 (STEAM)
1	Rajrappa	Rajrappa	VI	WIII (Prov.)
2		Rajrappa	V	WIII (Prov.)

GRADE FOR SIDING FOR THE YEAR 2023-24

Sl. No.	Area	Name of the Siding/CHP	Grade for 2023-24
1	Rajrappa	Rajrappa Washery	WC(CC/PC)/WIV/WIII

**CENTRAL COALFIELDS LIMITED**  
**AREA : KATHARA**  
**COAL GRADES FOR THE YEAR 2023-24**

Sl. No.	Colliery	Coal Seam	Location	Grade for Yr.2023-24 (ROM)
1	Kathara	Kargali	O/C	WII (P)
2		Kathara	O/C	WIII (P)
3	Jarangdih	Karo Maj.VIII	O/C	W-IV (P)
4		Karo Maj.X	O/C	WIV (P)
5		Bermo	O/C	W-IV (P)
6	Sawang (O/C)	Bermo	O/C	WIV (P)
7		Up.Karo	O/C	WIV (P)
8		Lr.Karo	O/C	WIV (P)
9	Govindpur Phase-II	Bermo	O/C	WIV (P)
10		Up. Karo X	O/C	WIV (P)
11		Lr. Karo VIII	O/C	WV (P)
12		Lr. Karo VII (Top)	O/C	WIV (P)
13		Lr. Karo VII (Bot.)	O/C	W-V (P)
14		Lr. Karo VI	O/C	W-V (P)
15	Govindpur	JRD 10'	U/G (3&4 Inc.)	WIV (P)
16		JRD 6'	U/G (5&6 Inc)	WIII (P)
17		JRD 18'	U/G (1&2 Inc.)	WIV (P)
18		Kathara	U/G	WIII (P)
19		Swang-C	U/G	WIV (P)
20		Kargali Top/Bot	O/C	WIII (P)
21		Bermo	O/C	WIV (P)

**STEAM COAL GRADES**  
**FOR THE YEAR 2023-24**

Sl. No.	Area	Colliery	Coal Seam	Grade for 2023-24 (STEAM)
1	KATHARA	Jarangdih	X	WIII
2			VIII	WIII
		GVP PH-II	VIII	WII

**GRADE FOR SIDING FOR THE YEAR 2023-24**

Sl. No.	Area	Name of the Siding/CHP	Grade for 2023-24
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 2023-24

Sl. No.	Colliery	Coal Seam	Location	Grade for Yr.2023-24 (ROM)
1	Bokaro	Kargali	O/C	WII (P)
2		Bermo	O/C	WIV (P)
3	Kargali	Kargali	O/C (Dhori Patch)	WIII (P)
4	Karo-I Project	Karo XI	O/C	WIV (P)
5		Karo X	O/C	WIV (P)
6		Karo IX	O/C	WIV (P)
7		Karo VIII	O/C	WIV (P)
8		Karo VII & VI	O/C	W-V (P)
9		Karo V	U/G	WIV (P)
10	AKK OCP	Karo X	O/C	WIV (P)
11		Karo VIII	O/C	W-V (P)
12		Karo VII & VI	O/C	W-IV (P)
13		Karo V	U/G	WIV (P)
14		Karo III	U/G	WIII (P)
15	Karo Proj.II (KSP Phase-II)	Karo V	U/G	WIV (P)

STEAM COAL GRADES  
FOR THE YEAR 2023-24

Sl. No.	Area	Colliery	Coal Seam	Grade for 2023-24 (STEAM)
1	B&K	AKK OCP	VIII, VII & VI	WIII
			X	W I (Prov.)
2		Karo OCP	VIII, VII & VI (Comb.)	WIII
3		Karo OCP	X	WII

GRADE FOR SIDING FOR THE YEAR 2023-24

Sl.	Area	Name of the Siding/CHP	Grade for 2023-24
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 2023-24

Sl. No.	Colliery	Coal Seam	Location	Grade for Yr.2023-24 (ROM)
1	Sel.Dhori Open Cast Mine	Karo Maj.(IX-X)	O/C	WIII (P)
2		Karo Maj. VIII	O/C	WIV (P)
3		Karo Maj. VII&VI	O/C	WIV (P)
4	Tarmi	Karo Maj V	O/C	W-VI (P)
5		Karo Spl.III	O/C	WIII (P)
6	Amlagamated Amlo Dhori Open Cast Mine	Karo Maj. (IX-X)	O/C	WIII (P)
7		Karo Maj. VIII	O/C	WIV (P)
8		Karo Maj. VII&VI	O/C	WIV (P)
9		Bermo	O/C	WIV (P)
10	Dhori (Khas)	Karo Spl.III (Chapri)	U/G	WII (P)
11		Karo Bott. (Pichari)	O/C	WIV (P)
12	Giridih	Khandia IV	O/C	---
13		Khandia III/II/I	O/C)PDS/Kabribad	G8 (P)
14		Balihill	O/C	G10 (P)
15		Jatkuti	O/C	G10 (P)

STEAM COAL GRADES

FOR THE YEAR 2023-24

Sl. No.	Area	Colliery	Coal Seam	Grade for 2023-24(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
1	Giridih	Giridih OCP	Balihill	G7

GRADE FOR SIDING FOR THE YEAR 2023-24

Sl. No.	Area	Name of the Siding	Grade for 2023-24
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
5	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