

**कोटि अधिसूचना 2015 – 2016**  
**GRADE NOTIFICATION 2015 - 2016**



**भारत कोकिंग कोल लिमिटेड**  
**BHARAT COKING COAL LIMITED**

( कोल इण्डिया लिमिटेड का एक अंग )  
( A Subsidiary of Coal India Limited )

**कोयला भवन, कोयला नगर**  
**KOYLA BHAWAN, KOYLA NAGAR**

**धनबाद - 826005**  
**DHANBAD - 826005**



**BHARAT COKING COAL LIMITED**  
QUALITY CONTROL DEPARTMENT  
**'KOYLA BHAWAN', KOYLA NAGAR**  
DHANBAD-826005, JHARKHAND

Phone: EPABX-2230028-29, 2230133-149

2230200

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Ref No. BCCL/GM(OC)/E-99/15/119

Dated 18.03.2015

Regd. Office: Koyla Bhawan  
P.O. BCCL Township,  
Koyla Nagar, Dhanbad

**ANNUAL GRADE DECLARATION FOR 2015-16**

In pursuance of provisions of sub-rule (2) of Rule 4 of Colliery Control Rules, 2004 and sub-rule (2) of Rule 18 B of Coal Mines (Conservation & Development) Amendment Rules, 2011, Government of India, I being the competent authority of the Company, hereby declare the grade of all the coal seams of different collieries of Bharat Coking Coal Limited for the year 2015-16 to be effective from 00' Hrs of 01.04.2015 in supersession of all previous declaration, as per details enclosed.

Encl: As above.

Director (Tech)  
Nominated Owner  
BCCL, Dhanbad

**Distribution:**

1. Joint Secretary, Ministry of Coal, Sashty Bhawan, New Delhi.
2. The Coal Controller, 1 Council House St. : Kolkata -700001.
3. GM/Officer -On -Special -Duty, Coal Controller Orgn., Dhansar, Dhanbad.
4. The District Mining Officer, Combined Building, Dhanbad.
5. CMD, BCCL, Dhanbad.
6. CMD, ECL/ CCL/ NCL/ MCL/ SECL/ WCL/ CMPDIL
7. Director (Tech)/OP, BCCL, Dhanbad.
8. Director (Finance), BCCL, Dhanbad.
9. C.V.O., BCCL, Dhanbad.
10. Director (Marketing), CIL, Kolkata.
11. Regional Director, CMPDIL-RI-II, Dhanbad.
12. General Manager, (S&M), CIL, Kolkata.

P.T.O.

13. General Manager, (QC), CIL, Kolkata.
14. General Manager (S&M), CIL, New Delhi.
15. Chief General Manager (Washery Divn.), Saraidhela, Dhanbad.
16. Chief General Manager (P&P), Koyla Bhawan, Dhanbad.
17. General Manager (S&M), Koyla Bhawan, Dhanbad.
18. General Manager (Co-ord.), Koyla Bhawan, Dhanbad.
19. General Manager (QC), Koyla Bhawan, Dhanbad.
20. TS to CMD/ TS to D(T)OP/ TS to D(T)P&P
21. CGM/GM (QC), ECL/NCL/SECL/WCL/MCL/CCL/NEC.
22. CGM /GMs, All Area, BCCL.
23. GM (Finance), Koyla Bhawan, BCCL.
24. GM (Cost and Budget), Koyla Bhawan.
25. CM (Finance), S/A, Koyla Bhawan, BCCL.
26. Sr. Manager (Road Sales), BCCL, Koyla Bhawan.
27. Sr. Manager (Traffic), Koyla Bhawan, Dhanbad.
28. Dy.CME / Agent / Project Officer / Manager: All Collieries, BCCL.
29. Area Sales Manager, All Areas, BCCL.
30. Regional Sales Manager, CIL, Lucknow, Chandigarh, Patna, Jaipur, Ahmedabad, Mumbai, Bengaluru, Chennai, Hyderabad.
31. The General Manager, CCSO, SAIL, Saraidhela, Dhanbad.
32. GM/Chief Engineer (Fuel), HQ: DVC (Kolkata), WBPDCCL (Kolkata), UPRVUNL (Lucknow), NTPC (New Delhi), CESC (Kolkata), NFL (Noida), BPSCL (Bokaro), DPL (Durgapur), HPGCL (Panchkula), PSPCL (Patiala).
33. Chief Engineer-Bokaro TPS/ Chandrapura TPS/ Durgapur TPS/ Durgapur Steel TPS/ Mejia TPS/ Harduaganj TPS/ Paricha TPS/ Panki TPS/ Guru Nanak Dev TPS/ Ropar TPS/ Panipat TPS/ Unchahar TPS/ Kolaghat TPS/ Santaldih TPS/ Bandel TPS/ Sagardighi TPS/ Bakreswar TPS/ Farakka TPS/ Kanti TPS/ Hissar TPS/ Jhajjar TPS/ Bokaro Power Supply Company Pvt. Ltd./ Durgapur Projects Ltd./ Calcutta Electric Supply Corporation.
34. Chief Engineer, NFL/Panipat/Bhatinda/Nangal Dam.
35. All Executives, QC Deptt, Koyla Bhawan
36. Office Copy.

AREA- BARORA

SL.NO.	COLLIERY / MINE	SEAM	WORKING SEC. THICKNESS(MTS)	SIZE	GRADE FOR 2015-16
1	<b>DAMODA</b>				
	DAMODA OCP	IV/V/VI/VII (COMB)	21.00	STEAM	W-III
				ROM	W-IV
				SLACK	W-IV
	OLD GHUTWAY OCP	I	2.20	ROM	G-8
		III	0.71	ROM	W-IV
	GHUTWAY INC.	II	2.21	ROM	W-II
	BJ SECTION	X	3.00	ROM	W-II
	BJ SECTION	XI/XII	3.00	ROM	W-II
	BJ SECTION	XIII	3.00	ROM	W-II
BJ SECTION	VIII	2.20	ROM	W-III	
BJ PIT	IX	3.00	ROM	W-II	
BJ PIT	IV/V/VI/VII (COMB)	2.50	ROM	W-IV	
2	<b>MURAI DIH</b>				
	MURAI DIH OCP	V/VI/VII (COMB)	25.00	STEAM	W-III
				ROM	W-IV
				SLACK	W-IV
		VIII(A) & VIII(B) (COMB)	3.00 & 2.40	STEAM	W-III
				ROM	W-IV
			SLACK	W-IV	
3	<b>MADHUBAND</b>				
	NEW PIT	XVI C	3.00	ROM	ST-I (DF)
	2/15 , 3/15	XVI A/AB	2.40	ROM	W-II
	INCLINE	XVI C	3.00	ROM	ST-I (DF)
	2/15, 3/15	XVI D/ XVI DE	2.85	ROM	W-IV
	XV	2.59	ROM	ST-II (DF)	
4	<b>PHULARITAND</b>				
	PHULARITAND (OCP)	V/VI/VII (COMB)	25.70	ROM	W-IV
	1 K / PIT	X	3.00	ROM	W-III
	1 K / PIT	XIII	2.40	ROM	W-III
	1 K / PIT	IX(B)	2.40	ROM	W-III
	1 K / PIT	VIII(A)	2.30	ROM	W-III
	OCP	VIII(A)	3.08	STEAM	W-III
				ROM	W-IV
			SLACK	W-IV	
PURE BENEDIH INC.	III	3.00	ROM	G-9	

AREA- BLOCK-II

SL.NO.	COLLIERY / MINE	SEAM	WORKING SEC. THICKNESS(MTS)	SIZE	GRADE FOR 2015-16
1	<b>BLOCK-II OCP MINE</b> (AMALGAMATED BENEDIH NUDKHURKEE,BLOCK-II)	V/VI/VII (COMB)	24.00	STEAM	W-III
				ROM	W-IV
				SLACK	W-IV
		VIII(A)	3.60	ROM	W-IV
		VIII	1.50 TO 2.00	ROM	W-IV
		VIII(B)	1.60	ROM	W-IV
		IX/X	10.00	ROM	W-IV
		XIII	4.00	ROM	W-IV
		XIV	3.93	ROM	W-IV
	XV	2.43	ROM	W-IV	
2	<b>J.O.C.P. COLLIERY</b>	IV/V/VI/VII (COMB)	35.18	STEAM	W-III
				ROM	W-IV
				SLACK	W-IV
		VIII	2.04	ROM	W-IV
		VIII(A)	4.43	ROM	W-IV
		VIII(B)	1.00 to 1.50	ROM	W-IV
		IX/X	9.62	ROM	W-IV
	XI/XII	5.79	ROM	W-IV	

AREA - WESTERN JHARIA

SL.NO.	COLLIERY / MINE	SEAM	WORKING SEC. THICKNESS(MTS)	SIZE	GRADE FOR 2015-16
1	<b>BHATDEE</b> 14 INCLINE 17 INCLINE BHATDEE NO 1 OCP	III 0 0 A (MAHUDA MIDDLE / SPLINTER)	3.00 1.67 1.50	ROM ROM ROM	W-II W-II W-II
2	<b>MURLIDIH 20/21 PIT</b> PODUGORA INC. 20 PIT 21 PIT MURLIDIH OCP	III III III "0" A	2.50 2.50 2.50 1.50 TO 1.80	ROM ROM ROM ROM	W-II W-II W-II W-II
3	<b>LOHAPATY</b> 16/17 INC.	XI (A)/GEO -XIII XII,PATHERGORIA 'B'	1.40 2.20	ROM STEAM ROM	G-3 - LF W-III W-III
4	<b>MOONIDIH PROJ.</b> SHAFT 1 & 2	XVIII XVI (T) XVI (T) COMB. XVI (B) & COMB. XV	2.50 TO 2.60 2.40 TO 2.60 2.40 TO 2.90 1.90 TO 4.20 2.90	ROM ROM ROM ROM ROM	W-II W-II W-II W-II W-II
5	<b>MURLIDIH OCP</b>	III (MAHUDA TOP)	2.85	ROM	W-II

AREA-GOVINDPUR

SL.NO.	COLLIERY / MINE	SEAM	WORKING SEC. THICKNESS(MTS)	SIZE	GRADE FOR 2015-16
1	<b>MAHESHPUR</b>				
	10 SEAM OCP	X	6.88	ROM	W-IV
	10 A INC.	XA	2.28	ROM	W-III
	9 SEAM BOT (M)	IX B	3.00	ROM	W-III
	9 SEAM BOT (S)	IX B	3.00	ROM	W-III
	10 SEAM , SINIDIH	X	2.90	ROM	W-IV
2	<b>KHARKHAREE</b>				
	L-12 INC.	L-12	1.50	ROM	W-IV
	17 TOP INC.	XVII (T)	2.00	ROM	W-IV
	1/2 PIT	XV	3.00	STEAM	W-II
				ROM	W-II
3	<b>S. GOVINDPUR</b>				
	2 PIT (JG)	X B	3.00	ROM	W-IV
	2 PIT (SG)	X B	3.18	ROM	W-IV
4	<b>NEW AKASHKINAREE</b>				
(i)	AKASHKINAREE SEC.				
	3 SEAM INC.	II	3.00	ROM	W-IV
				STEAM	W-III
				SLACK	W-IV
	OCP	V/VI/VII (COMB)	28.70	STEAM	W-III
				ROM	W-IV
				SLACK	W-IV
	1 SEAM INC.	I	2.40	ROM	W-III
(ii)	<b>EAST KATRAS SECTION</b>				
	3 PIT	VI	2.80	STEAM	W-III
				ROM	W-III
				SLACK	W-III
	5 PIT	VIII	3.00	ROM	W-IV
	5 PIT	VII	1.83	ROM	W-IV
	10 A INCL.	VIII (B)	3.00	ROM	W-IV

**AREA-GOVINDPUR**

SL.NO.	COLLIERY / MINE	SEAM	WORKING SEC. THICKNESS(MTS)	SIZE	GRADE FOR 2015-16
5	<b>BLOCK-IV</b>				
	1 SEAM BAJ. INC.	I	2.35	ROM	W-III
	3 SEAM INC.	II	3.00	STEAM	G-6
				ROM	G-7
	OCP	V/VI/VII (COMB)	30.02	STEAM	W-III
				ROM	W-IV
				SLACK	W-IV
	10 SEAM OCP	IX	7.48	ROM	W-IV
10 A SEAM OCP	X	7.79	ROM	W-IV	
6	<b>JOGIDIH</b>				
	9 SEAM INC.	VIII (B)	3.00	ROM	W-IV
	10 A SEAM INC.	VIII (A)	1.50	ROM	W-IV
	2/1 INC.	I	2.60	ROM	W-IV
				STEAM	W-III
				SLACK	W-IV
	OCP	V/VI/VII (COMB)	27.85	ROM	W-IV
				STEAM	W-III
			SLACK	W-IV	
7	<b>GOVINDPUR</b>				
	1 /1 INC.	I	2.10	ROM	W-IV
	1 /2 INC.	II	3.00	STEAM	W-III
				ROM	W-IV
				SLACK	W-IV
	1/ 4 INC.	IV	3.00	STEAM	W-III
				ROM	W-IV
				SLACK	W-IV
	OCP	V/VI/VII (COMB)	28.41	STEAM	W-III
				ROM	W-IV
			SLACK	W-IV	
NEW OCP	XA	6.71	ROM	W-IV	
	X (T)	2.10	ROM	W-IV	
	X (B)	2.50	ROM	W-IV	



AREA-KATRAS

SL.NO.	COLLIERY / MINE	SEAM	WORKING SEC. THICKNESS(MTS)	SIZE	GRADE FOR 2015-16
1	<b>RAMKANALI</b>				
	4 SEAM INCL.	V (T), V (B)	3.00 EACH	ROM	W-IV
	4 SEAM INCL.	IV (T), IV (B)	3.00 EACH	ROM	G-6
	2 SEAM INCL.	II (T)	2.00 (T)	ROM	G-8
		II (B)	3.00 (B)	ROM	W-IV
	OCP	IV	15.80	ROM	G-6
	OCP	V	9.00	ROM	W-IV
	3 SEAM INCL.	III	3.00	ROM	W-IV
2	<b>ANGARPATHRA</b>				
	R K PIT	V/VI	3.00	ROM	W-IV
	20 PIT	VIII	2.30	ROM	W-IV
	R K PIT / 20 PIT	IV (T)	3.00	ROM	W-IV
		IV (B)	2.70	ROM	W-IV
	R K PIT / 20 PIT	III	3.00	ROM	W-IV
3	<b>A.K.W.M.</b>				
	(AMALGAMATED KESHALPUR & WEST MUDIDIH )				
	3 SEAM INCL.	III	3.90	ROM	G-7
	2 INCL.	II (B)	4.20	ROM	W-IV
	1 SEAM INCL.	I (T&B)	1.80	ROM	G-8
	OCP	VIII	1.80	STEAM	W-III
				ROM	W-IV
				SLACK	W-IV
	OCP	VIII A	3.00	STEAM	W-III
				ROM	W-IV
				SLACK	W-IV
	OCP	VII	4.80	STEAM	W-III
				ROM	W-IV
				SLACK	W-IV
OCP	IV	16.25	ROM	W-IV	
OCP	V/VI	9.00 TO 10.00	STEAM	W-III	
			ROM	W-IV	
			SLACK	W-IV	

AREA-KATRAS

SL.NO.	COLLIERY / MINE	SEAM	WORKING SEC. THICKNESS(MTS)	SIZE	GRADE FOR 2015-16
4	<b>SALANPUR</b>				
	3 SEAM INCL.	III	3.00	ROM	G-7
	5 SEAM INCL.	IV (T)	2.80	ROM	G-8
		IV (B)	3.00	ROM	W-IV
	5 SEAM INCL.	V (T&B)	3.00 & 2.80	ROM	G-7
	OCP	IV/V/VII	27.98	STEAM	W-III
				ROM	W-IV
				SLACK	W-IV
5	<b>KATRAS CHAITUDIH</b>				
	6 PIT	X	2.40	ROM	W-IV
	6 PIT	IX	2.28	ROM	W-IV
	6 PIT/ 2 PIT	VIII B	3.00	ROM	W-III
	2 PIT	X	2.40	ROM	W-IV
	2 PIT	IX	2.28	ROM	W-IV
	5 & 6 PIT	VIII (A)	2.60	ROM	W-III
6	<b>GASLITAND</b>				
	OCP	XV (T) & XV (B) COMB	2.55 EACH	ROM	ST-II
	OCP	XIV & XIII (COMB)	7.00 & 3.80	ROM	ST-II

AREA-SIJUA

SL.NO.	COLLIERY / MINE	SEAM	WORKING SEC. THICKNESS(MTS)	SIZE	GRADE FOR 2015-16
1	<b>TETULMARI</b>				
	PST 2 INCL	II (B)	3.00	ROM	W-IV
	OCP 4 SEAM	IV	13.70	ROM	W-IV
	OCP V/VI SEAM	V/VI	9.30	STEAM	W-III
				ROM	W-IV
				SLACK	W-IV
	OCP	VIII (A)	2.60	ROM	W-IV
		VIII	5.10	ROM	W-IV
		VII	3.60	ROM	W-IV
	2	<b>SENDRA BANSJORA</b>			
4 PIT		V/VI (T&B)	2.40 T	STEAM	W-III
			2.40 B	ROM	W-IV
				SLACK	W-IV
6 PIT		VII	3.00	ROM	W-IV
OCP		VIII	5.79	STEAM	W-III
				ROM	W-IV
				SLACK	W-IV
OCP		V/VI	9.40	STEAM	W-III
				ROM	W-IV
				SLACK	W-IV
1 PIT		X	3.00	ROM	W-III
OCP		IV	11.80	ROM	G-6
3 PIT	III	3.00	ROM	W-III	
3	<b>NICHITPUR</b>				
	OCP	V	9.14	STEAM	W-III
				ROM	W-IV
				SLACK	W-IV
	OCP	IV	11.28	STEAM	W-III
				ROM	W-IV
				SLACK	W-IV
	OCP	II	9.14	STEAM	W-III
				ROM	W-IV
				SLACK	W-IV
	OCP	III	3.96	STEAM	W-III
				ROM	W-IV
			SLACK	W-IV	

**AREA-SIJUA**

SL.NO.	COLLIERY / MINE	SEAM	WORKING SEC. THICKNESS(MTS)	SIZE	GRADE FOR 2015-16
4	<b>LOYABAD</b>				
	NEW DRIFT INCL	XVI (A)	1.60	ROM	ST-II
	NEW DRIFT INCL	XVI	2.00	ROM	ST-II
	5 PIT	X	8.00	ROM	W-III
	OCT INCL	X	8.00	ROM	W-III
	9 PIT	XV	5.40	ROM	ST-II
	LOYABAD COLLY. 5 PIT (5 PIT)	VIII (A)/VIII	6.09	ROM	W-IV
5	<b>BANSDEOPUR</b>				
	1/12 INCL	XII	3.00	ROM	W-II
	1/11 INCL	XI	3.00	ROM	W-II
	7/15 INCL	X	3.00	ROM	W-III
	7/15 INCL	VIII	3.00	ROM	W-IV
	OCP	XIII	6.70	ROM	ST-II
	OCP	XIV	8.53	ROM	ST-II
6	<b>MUDIDIH</b>				
	3 PIT JOGTA	VII	3.00	ROM	W-IV
	6 PIT MUDIDIH	X	7.80	ROM	W-IV
	7/ 8 INCL	VII	3.00	STEAM	W-III
				ROM	W-IV
				SLACK	W-IV
	7/8 INCL	VIII (B)	2.40	ROM	W-IV
	7/8 INCL	VIII (A)	2.60	ROM	W-IV
	3 PIT JOGTA	VI	3.00	ROM	W-IV
	7/8 INCL	VI	3.00	ROM	W-IV
	6/10 QUARRY OCP	XII	3.73	ROM	W-II
		XI	3.86	ROM	W-II
		X	7.80	ROM	W-II
	OCP	XII	3.73	ROM	W-II
		XIII	4.95	ROM	ST-II (DF)
	XI	3.80	ROM	W-II	
7	<b>KANKANEE</b>				
	4 PIT SENDRA	X A	1.66	ROM	W-IV
	2 PIT	IX/ GEO VIII A	2.80	ROM	W-IV
	OCP	XIV	8.52	ROM	ST-II
		XIII	6.70	ROM	ST-II

AREA-KUSUNDA

SL.NO.	COLLIERY / MINE	SEAM	WORKING SEC. THICKNESS(MTS)	SIZE	GRADE FOR 2015-16
1	<b>EAST BASURIA</b> QUARRY	II	10.29	STEAM	G-2
	QUARRY	III	3.66	ROM	G-3
2	<b>AMALGAMATED DHANSAR-INDUSTRY COLLIERY</b> 1 PIT	III	3.00	STEAM	G-1
	AREA H OCP	V/VI/VII/VIII	18.90	ROM	G-2
				STEAM	W-III
				ROM	W-III
3	<b>GODHUR</b> 30 INCL.	VI/VIII	2.40/2.60	SLACK	W-III
	27 INCL.	V	3.00	ROM	W-III
	15 QUARRY	X	16.42 (FULL)	ROM	W-III
	3 PIT	VII/VIII	2.60	ROM	W-III
	15 QUARRY	XI/XII	12.90	ROM	W-III
	NO 4 INC (NEW)	II	3.00	STEAM	W-III
				ROM	W-III
	NO 1 NEW INCL.	III	3.00	STEAM	G-2
				ROM	G-3
				ROM	W-III
4	<b>GONDUDIH-KHAS KUSUNDA (GKKC)</b> <b>KHAS KUSUNDA</b> OCP	II	11.65 (FULL)	STEAM	G-2
				ROM	G-3
	OCP	VII/VIII	9.85	ROM	W-III
	<b>GONDUDIH</b> QUARRY	X	18.19	STEAM	W-III
				ROM	W-III
				SLACK	W-III
	QUARRY	VIII	8.26	STEAM	W-III
				ROM	W-III
				SLACK	W-III
	QUARRY	V/VI	5.08	ROM	W-III
	QUARRY	II	10.37	STEAM	G-2
				ROM	G-3
QUARRY	III	4.10	STEAM	G-2	
			ROM	G-3	
GONDUDIH (OCP)	IV (T)	3.17	STEAM	G-3	
			ROM	G-4	
	IV (B)	3.34	ROM	G-4	

AREA-KUSUNDA

SL.NO.	COLLIERY / MINE	SEAM	WORKING SEC. THICKNESS(MTS)	SIZE	GRADE FOR 2015-16
5	<b>KUSUNDA</b>				
	KN - I PIT :	V/VI/VII/VIII (COMB)	3.00	ROM	W-III
	KN - II PIT :				
	OCP AREA -C	X	14.79	ROM	W-IV
	OCP AREA -A	V/VI/VII/VIII (COMB)	18.97	STEAM ROM	W-III W-III
6	<b>BASURIA</b>				
	OCP	X	8.10	ROM	W-III
	NO.1 PIT	VIII (B)	1.83	ROM	W-IV
	NO.1 PIT	V/VI	3.00	ROM	W-IV
	NO.1 PIT	VII	1.80	ROM	W-IV
7	<b>ALKUSA</b>				
	3 PIT & 6 PIT	VIII	2.40 TO 3.00	ROM	W-IV
	6 PIT	V/VI	2.80 TO 3.00	ROM	W-IV
8	<b>ENA</b>				
	FIRE PROJECT	XV	6.81	STEAM ROM SLACK	W-I (SLV) W-II (SLV) W-II
	OCP FIRE PROJECT	XIV	6.81	STEAM ROM SLACK	W-I (SLV) W-III W-III
	FIRE PROJECT	XIII	6.05	STEAM ROM SLACK	W-II (SLV) W-III (SLV) W-IV (SLV)
	FIRE PROJECT	XI/XII	11.00	ROM	W-II

AREA-POOTKEE BALIHARI

SL.NO.	COLLIERY / MINE	SEAM	WORKING SEC. THICKNESS(MTS)	SIZE	GRADE FOR 2015-16
1	<b>GOPALICHUCK</b>				
	2 PIT (K)/ 4 PIT (WG)	X	7.00	ROM	W-II
	5 PIT (KB)	XI	3.00	ROM	W-II
	2 PIT (M)	VIII	3.00	ROM	W-IV
	5 PIT (KB)	XIV	3.00	ROM	W-II
	6 PIT (KB)	X	3.00	ROM	W-II
2	<b>BALIHARI</b>				
	10/12 PIT	XV	2.80	ROM	ST-II (DF)
	5/7 PIT	XI/XII	3.00	ROM	W-I (DF)
3	<b>PUTKI</b>				
	1 PIT	XI	3.00	ROM	ST-II (DF)
	1 PIT	X	3.00	ROM	W-II
	1 PIT	X A	2.10	ROM	W-II
	NO 1 PIT	XII	3.00	ROM	ST-II (DF)
4	<b>BHAGABAND</b>				
	17 B INCL.	XVII (B)	1.92	ROM	W-IV
	BHAGABAND SEC.	XVI (T)	2.60	ROM	ST-II (DF)
	BHAGABAND SEC.	XV	3.00	ROM	ST-I (DF)
5	<b>P.B PROJ.</b>				
	I & II PIT	XI	3.00	ROM	W-I (DF)
	I & II PIT	XII	3.00	ROM	W-I (DF)
6	<b>SIMLABAHAL</b>				
	7/8 PIT	XI/XII	3.00 (XI) 2.70 (XII)	ROM	W-II
	2/4 PIT	XB	2.70	ROM	W-II
		XM	2.70	ROM	W-II
	NEW PIT (BHALGORA)	XI/XII	3.00	ROM	W-II
7	<b>HURRILADIH</b>				
	1/2 PIT	XI	3.00	ROM	W-II
		XII	3.00	ROM	W-II
8	<b>BURRAGARH</b>				
	3/2 PIT	XIV	5.30	STEAM ROM SLACK	W-I (SLV) W-II (SLV) W-II (SLV)
	2 PIT / 3 PIT	XI	2.80	ROM	W-II
	2 PIT / 3 PIT	IX	2.80	ROM	W-II
9	<b>KENDWADIH</b>				
	OCP	XV	5.79	ROM	ST-II

AREA-BASTACOLLA

SL.NO.	COLLIERY / MINE	SEAM	WORKING SEC. THICKNESS(MTS)	SIZE	GRADE FOR 2015-16
1	<b>BASTACOLLA</b>				
	<b>CHANDMARI SECTION</b>				
	9 PIT	I (B)	4.50	STEAM ROM	W-I W-I
	<b>VICTORY SECTION</b>				
1	1 PIT	II (B)	4.50	STEAM ROM SLACK	W-III W-IV W-IV
	2 PIT	III (B)	3.00	STEAM ROM SLACK	W-III W-IV W-IV
	OCP	V/VI/VII/VIII (COMB.)	4.00 TO 14.00	ROM	W-III
2	<b>BERA</b>				
	21/22 INCL.	II (BOT)	3.00	ROM	G-5
	OCP	III (B)	6.70	STEAM ROM SLACK	W-III W-IV W-IV
3	<b>DOBARI</b>				
	1 & 2 PIT	I	3.00	STEAM ROM SLACK	W-I W-II W-II
	9 INCL.	III (B)	4.50	STEAM ROM SLACK	W-III W-IV W-IV
	6 INCL.	III (T)	4.50	STEAM ROM SLACK	W-III W-IV W-IV
3	16 & 17 INCL.	II (B)	3.60	ROM	G-4
4	<b>GHANOODIH</b>				
	OCP	V/VI/VII/VIII	16.20	STEAM ROM SLACK	W-III W-III W-III
	OCP	IX/X	13.25	STEAM ROM SLACK	W-III W-III W-III



**AREA-BASTACOLLA**

<b>SL.NO.</b>	<b>COLLIERY / MINE</b>	<b>SEAM</b>	<b>WORKING SEC. THICKNESS(MTS)</b>	<b>SIZE</b>	<b>GRADE FOR 2015-16</b>
5	<b>KUYA</b> 1/2 INCL.	I	5.00	STEAM	W-I
				ROM	W-I
	OCP	III (T&B)	14.35	STEAM	W-III
				ROM	W-IV
				SLACK	W-IV
	OCP, 'O' SEAM	I	4.80	ROM	W-III
	OCP	IV(T)	3.36	ROM	G-6
OCP	IV(B)	3.97	ROM	G-6	
6	<b>EAST BHAGATDIH</b> 9 PIT	V/VI/VII/VIII	2.80 (T)	ROM	W-III
			3.00 (B)		
	10 PIT	IX/X	3.50 (B)	ROM	W-IV
			2.80 (T)		
7	<b>ROCP / S. JHARIA</b>	VII/VIII (COMB.)	15.60 (FULL)	STEAM	W-III
				ROM	W-III
				SLACK	W-III

AREA-LODNA

SL.NO.	COLLIERY / MINE	SEAM	WORKING SEC. THICKNESS(MTS)	SIZE	GRADE FOR 2015-16
1	<b>LODNA</b>				
	4 PIT NS	IX/X	4.20	ROM	W-III
	7 PIT LOD	IX/X	4.20	ROM	W-II
	7 PIT LOD	VIII A	3.90	ROM	W-III
	6 PIT LOD	XI/XII	3.50	ROM	W-I
	1 PIT NS	VIII	3.00	ROM	W-III
	8 PIT LOD	VIII	3.00	ROM	W-III
	2 PIT BHAGA	XIII	3.40	ROM	ST-II
	8 / 1 PIT NS	VII	3.00	ROM	W-III
8 / 1 PIT	V/VI	3.00	STEAM	W-III	
			ROM	W-III	
2	<b>BAGDIGI</b>				
	12 PIT	VIII	2.50 TO 3.05	ROM	W-III
	9 PIT	IX/X	2.80	ROM	W-III
	12 PIT QUARRY	VII XIV	3.00 9.14	ROM	W-III ST-II
3	<b>JOYRAMPUR</b>				
	3/4/5 PIT	VII	2.50	ROM	W-III
	5 PIT	VII	2.50	ROM	W-III
	4 PIT	VIII	2.40	ROM	W-III
	3 PIT	VIII	2.90	ROM	W-III
	5 PIT	V (T)/ Geo IV(T)	3.00	ROM	W-III
JOYRAMPUR OCP	XI / XII	7.62	ROM	W-II	
4	<b>JEENAGORA</b>				
	KT / QUARRY	IV (B)	6.10	STEAM	G-5
				ROM	G-6
	JEENAGORA OCP	V/VI/VII (COMB.)	11.80	STEAM	W-III
				ROM	W-III
				SLACK	W-IV
	KJ INCL.	V/VI	3.00	ROM	W-III
	KT / QUARRY	IV (T)	4.80	ROM	G-11
	JEENAGORA OCP	V/VI (COMB.)	8.34	ROM	W-III
	BASUDEO 'A' SECTION OCP	VII III	5.04 11.02	ROM STEAM	W-III W-III
			ROM	W-IV	
			SLACK	W-IV	

AREA-LODNA

SL.NO.	COLLIERY / MINE	SEAM	WORKING SEC. THICKNESS(MTS)	SIZE	GRADE FOR 2015-16
5	<b>AMALGAMATED NORTH TISRA AND SOUTH TISRA COLLIERY</b>				
	<b>S. TISRA</b>				
	OCP (N.TISRA & S.TISRA)	III	14.37	STEAM ROM SLACK	W-III W-IV W-IV
	OCP	I	4.90	ROM	W-III
	OCP	IV (B)	6.40	STEAM ROM SLACK	W-III W-IV W-IV
	OCP	IV (T)	6.10	ROM	G-11
	OCP	II (FULL)	4.53	ROM	G-7
	OCP	V/VI/VII	15.39	STEAM ROM SLACK	W-III W-IV W-IV
	<b>N.TISRA</b>				
	I INC.	IV	3.00	STEAM ROM	G-5 G-5
	LUJ. PIT	IX/X	4.40	ROM	W-II
	OCP	I	3.21	ROM	W-II
	OCP	IV BOTTOM	6.20	ROM	W-IV
6	<b>JEALGORA</b>				
	7 / 2 PIT	XI/XII	6.70	ROM	W-I
7	<b>BARAREE</b>				
	6 PIT	VIII	2.40	ROM	W-III
	6 PIT	VII (T)	3.00	ROM	W-III
	6 PIT	VII (B)	3.00	STEAM ROM	W-III W-III
	6 PIT	X (T)	2.20	ROM	W-II
	OCP	XIV	6.70 TO 9.19	ROM	ST-II
8	<b>KIJAMA COLLIERY</b>				
	(OCP)	XI/XII	13.41	ROM	ST-I
	KIJAMA COLLIERY	IX/X	13.99	ROM	W-III
	(OCP)				

AREA-EASTERN JHARIA

SL.NO.	COLLIERY / MINE	SEAM	WORKING SEC. THICKNESS(MTS)	SIZE	GRADE FOR 2015-16
1	<b>BHOWRAH NORTH</b>				
	23/8 INCL.	VI	2.40	STEAM	W-II (P)
				ROM	W-II
	7 (B) INC.	X/Geo-IX	4.00	ROM	W-II
	16 (A) INC.	XI/XII	2.40	ROM	W-II
	PARSIABAD INC.	XIV	3.00	ROM	ST-II (DF)
	PARSIABAD INC.	XI/XII	3.00	ROM	W-II
	OCP	XIV	12.00	ROM	ST-II (DF)
	OCP	XV	8.60	ROM	ST-II (DF)
OCP	XIVA	2.30	ROM	ST-II (DF)	
2	<b>CHANDAN PROJ.</b>				
	(BHOWRAH)	I-(T/M)	5.00	STEAM	W-III
	OCP			ROM	W-IV
				SLACK	W-IV
		I(B)	4.00	STEAM	W-III
				ROM	W-IV
				SLACK	W-IV
		II	8.88	STEAM	W-III
				ROM	W-IV
				SLACK	W-IV
		III	7.00	STEAM	W-III
				ROM	W-IV
			SLACK	W-IV	
3	<b>BHOWRAH SOUTH</b>				
	12/10 INC.	IX/X	3.00	ROM	W-II
	17 INC.	XVII	2.80	ROM	ST-I (DF)
	37/38 INC.	VIII A/ Geo-VI	3.00	STEAM	W-III
				ROM	W-III
	36 INC.	VIII A/ Geo-VI	3.00	ROM	W-III
	35 INC.	IV (T)	3.00	ROM	W-IV
	3 PIT OCP	XIV	9.75	ROM	ST-II (DF)
		XIII	2.65	ROM	W-II
		XI/XII	5.60	ROM	W-II
	IX/X	16.25	STEAM	W-I	
			ROM	W-II	
4	<b>AMLABAD PROJECT</b>				
	2 & 4 PIT	XV	2.10	ROM	W-II
	NO. 3 PIT	XVI	1.80	ROM	W-II
	4 PIT	XIII	3.00	ROM	W-I

AREA-EASTERN JHARIA

SL.NO.	COLLIERY / MINE	SEAM	WORKING SEC. THICKNESS(MTS)	SIZE	GRADE FOR 2015-16		
5	<b>SUDAMDIH SHAFT MINE</b>	VIII A	3.00 TO 3.50	ROM	W-II		
		IX/X	3.00 TO 3.50	ROM	W-II		
		XI/XII	3.00 TO 3.50	ROM	W-I		
		LOCAL	3.00	ROM	W-IV		
6	<b>A.S.P.C. (AMALGAMATED SUDAMDIH- PATHERDIH COLLIERY) SUDAMDIH INC. NEW INCL. REVERS INC. REVERS INC. REVERS INC. VII SEAM  INC. MINE III SEAM INC.  PATHERDIH VII INCL. VI INC.  CHANDAN PROJECT CHANDAN OCP (PATHERDIH)</b>	VI	2.80 TO 3.30	ROM	W-IV		
		VIII	3.20	ROM	W-IV		
		LOCAL	3.30 TO 3.40	ROM	W-IV		
		VIII A	4.57	ROM	W-II		
		VII	2.60 TO 3.20	ROM	W-III		
		IV (T)/IV (B)	3.00 EACH	ROM	W-IV		
		III	3.00	ROM	W-IV		
		VII	2.70 TO 3.90	ROM	W-IV		
		VI	3.60 TO 4.80	ROM	W-IV		
		I (B)	8.40 TO 10.50	ROM	W-III		
		II	8.00 TO 12.00	ROM	W-IV		
		I T/ I M	5.50 TO 9.50	ROM	W-IV		
		III	3.11 TO 4.80	ROM	W-IV		
		7	<b>BHUTGORIA AMALGAMATED COLLIERY 6 &amp; 7 PITS</b>	IX	3.00	ROM	W-IV (P)

AREA-CHANCH VICTORIA

SL.NO.	COLLIERY / MINE	SEAM	WORKING SEC. THICKNESS(MTS)	SIZE	GRADE FOR 2015-16
1	<b>VICTORIA WEST</b> 1 & 2 PIT	LAIKDIH	3.00 T/M/B	ROM	ST-II (DF)
2	<b>BEGUNIA</b> 6 & 7 PIT	BEGUNIA/CHANCH	3.00	ROM	ST-I (DF)
3	<b>NLOCP</b> QUARRY	NEW SEAM KALYANCHAK PATCH	10.00	STEAM ROM SLACK	W-II W-II W-II
4	<b>BASANTIMATA</b> 12/13 INC.	GOPINATHPUR (B)	2.50	STEAM ROM	G-4 G-5
		KALIMATI	3.00	STEAM ROM	G-4 G-5
	1/2 INC. (SUSHIL INC.)	GOPINATHPUR (T)	2.70	STEAM ROM	G-3 G-4
	19/20 INC.	BRINDABANPUR	3.00	STEAM ROM	G-3 G-4
5	<b>DAHIBARI</b> OCP	KALIMATI	12.00	STEAM ROM	G-5 G-6
	DAHIBARI OCP	BRINDABANPUR (T&B)	11.90	ROM	W-IV
	DAHIBARI OCP	GOPINATHPUR (B)	11.90	STEAM ROM	G-5 G-6

AREA-CHANCH VICTORIA

SL.NO.	COLLIERY / MINE	SEAM	WORKING SEC. THICKNESS(MTS)	SIZE	GRADE FOR 2015-16
6	<b>DAMAGORIA</b> OCP BORIRA PATCH	LAIKDIH (B)	4.75 TO 9.85	ROM	W-II
	CHAPTORIA OC	L-11	0.87	ROM	W-III
		L-10	1.10	ROM	W-III
		SALANPUR-D	1.50	ROM	W-III
		SALANPUR-C	2.38	STEAM	W-II
				ROM	W-II
		L-10 (BOTTOM)	0.38	STEAM	G-7 (SLV)
				ROM	G-7 (SLV)
		SALANPUR-C (BOTTOM)	4.76	STEAM	G-7 (SLV)
				ROM	G-7 (SLV)
		SALANPUR-D (TOP)	2.15	STEAM	G-7 (SLV)
				ROM	G-7 (SLV)

## GRADE CLASSIFICATION TABLE

### NON COKING COAL:

Grade of Coal	Gross Calorific Value bands for Non-Coking coals (In Kilo calories/Kilogram)
G1	Above 7000
G2	6701 to 7000
G3	6401 to 6700
G4	6101 to 6400
G5	5801 to 6100
G6	5501 to 5800
G7	5201 to 5500
G8	4901 to 5200
G9	4601 to 4900
G10	4301 to 4600
G11	4001 to 4300
G12	3701 to 4000
G13	3401 to 3700
G14	3101 to 3400
G15	2801 to 3100
G16	2501 to 2800
G17	2201 to 2500

Gross Calorific Value (GCV) determination should be carried out in any calibrated combustion Bomb Calorimeter, in accordance with procedure laid down in IS: 1350(Part-II) 1970 dated April 1971 or any subsequent revision thereof, in consonance with MOC's Gazette Notification No. 22021/1/2008-CRC-II Dt. 16.01.2012, regarding switch over from UHV to GCV and reporting of such results should be done on equilibrated basis (sample equilibrated at 40°C and 60% Relative Humidity).

“**GROSS CALORIFIC VALUE**” is calculated by CFRI formula using the value of M & A as follows. (High Moisture more than 2 %)

$$\text{GCV} = \frac{154 \{100 - (M + 1.1 A)\} - 108 M}{1.8}$$

Where GCV = Gross Calorific Value in Kilo Calories/Kg.

A = Ash %

M = Moisture %



IN CASE OF MOISTURE LESS THAN 2%,

$$\text{GCV} = \frac{165 F + 136(\text{VM} - 0.1 A) - 108 M}{1.8}$$

Where F = Fixed Carbon %  
VM = Volatile Matter %  
A = Ash %  
M = Moisture %

F, VM, A and M above shall be determined in accordance with the relevant clauses of Indian Standard specification No:- I.S: 1350-1959 and be calculated after equilibrating at 60% relative humidity and 40<sup>0</sup>C temperature vide clause no. 11.3 of the same Indian standard specification.

### GCV TO UHV

$$\text{UHV} = 1.466Q + 75.4 M - 3645$$

Where Q = Gross Calorific Value in Kcal/Kg.  
M = Moisture %

(All the values expressed at equilibrated condition i.e. at 60% RH and 40<sup>0</sup>C temperature)

### COKING COAL

SL. NO.	GRADE	ASH %
1	Steel – I	Up to 15
2	Steel – II	Exceeding 15 upto 18
3	Washery – I	Exceeding 18 upto 21
4	Washery – II	Exceeding 21 upto 24
5	Washery – III	Exceeding 24 upto 28
6	Washery – IV	Exceeding 28 upto 35

## TECHNICAL DETAILS

(A) **For proximate analysis:** The coal is grounded to 212 microns IS-Shieve and equilibrated in an atmosphere of 40°C and 60 % R.H.

(B) **For determination of inherent moisture percent:** One gram of laboratory sample is taken and heated in an air oven at a temperature of 108°C ± 2°C for one and half to two hours.

(C) **For determination of Ash percent:** One gram of laboratory sample is taken in silica dish and is heated at 815°C ± 10°C in muffle furnace for a period of one hour.

(D) **Unit Coal:** It is the pure coal substance free from moisture and mineral matter. For most Indian coal the amount of pure or unit coal present in 100 parts of raw coal is given by the expression:- 100-(M + 1.1A)

M = Moisture %.

A = Ash % in the coal "as received " basis.

(E) **Gross and Net Calorific Value:** Gross C V or "Upper heating value" is the CV in laboratory conditions. Net CV or "lower heating value" or "Net Effective Calories" NEC is the useful calorific value in boiler plant. The difference is essentially the latent heat of the water vapor produced.

(F) **Conversion-Gross/Net (for As Received figures)**

K. Cal /kg. Net CV = Gross C V – 50.6 H – 5.83M -0.167O  
where, M is % Moisture, H is % Hydrogen, O is % Oxygen  
(From ultimate analysis, also as received)

(G) **Definitions:**

As Received (AR) : Includes Total Moisture (TM)

Air Dried (AD) : Includes Inherent Moisture (IM) only

Dry Basis (DB) : Excludes all Moisture.

Dry Ash Free (DAF): Excludes all Moisture & Ash

(H) **TOLERANCE LIMIT:** As per I S : 1350 ( Part-I )1969

(i) **Moisture:** As per clause no. 6.6.5 the results of duplicate determinations shall agree within the following limits.

**Moisture Percent**

----- **Precision** -----

	<b>Within laboratory</b>	<b>Between laboratories</b>
Up to 3.0	± 0.1 units	±0.2 units
Over 3.0	± 3.0 percent of the result.	±6.0 percent of the result.

(ii) **Ash:** As per clause no. 8.4 the results of duplicate determinations should agree within the following limits;

<b>Ash</b>	<b>Precision</b>	
	<b>Within laboratory</b>	<b>Between laboratories</b>
Up to 10%	±0.2 units	±0.4 units
Over 10%	±2% of the result	±3% of the result

(I) **LONG FLAME:** Long flame coal shall be defined by the parameters as laid down in Table 2 of Indian Standard Specification No. IS: 770-1964 general classification of coal (Revised)

The relevant part is extracted below:

<b>Group</b>	<b>Volatile matter (%) (Unit Coal Basis)</b>	<b>Range of Gross C.V. in K.Cal/ Kg (Unit coal basis)</b>	<b>Range of air dried Moisture percent at 60 % RH, 40<sup>0</sup>C (Mineral Free Coal Basis)</b>
B4	Over 32	8060 to 8440	3 to 7
B5	Over 32	7500 to 8060	7 to 14

The determination of volatile matter and moisture shall be carried out on coal samples as per procedure laid down in Indian Standard specification No. 1350 (Part-I) 1984. Determination of gross calorific value shall be carried out in accordance with procedure laid in IS, 1350 (Part-II) 1970 dated April, 1971 or any subsequent revision thereof.

**LIST OF SIDINGS OF BCCL**

SL. No.	NAME OF AREA	NAME OF SIDING	SDG. SL. NO.	SL. NO.	NAME OF AREA	NAME OF SIDING	SDG. SL. NO.		
1	BARORA	NL(B)	1	10	C.V	NLOCP	23		
		BARORA ( W )	2			DAMAGORIA	24		
		BLOCK-II	KKC ( Link )	3	11	CCWO	MAHUDA-W/C	25	
			BJ-I	4			MAHUDA-M/C	26	
3	GOVINDPUR	KKC ( Main )	5	MOONIDIH-M/C			27		
		KESSURGARH	6	MOONIDIH-W/C			28		
4	KATRAS	NL(G)	7	DUGDA-W/C			29		
				SL-G			8	DUGDA-M/C	30
5	SIJUA	LAKARKA	9	SUDAMDIH-W/C			31		
				SIJUA			10	SUDAMDIH-M/C	32
6	KUSUNDA	KANKANEE	11	BHOJUDIH-W/C			33		
				GRR			12	BHOJUDIH-M/C	34
		7	P.B	BURRAGARH			17	MADHUBAN-NCW	35
								BZS	13
8	BASTACOLA	C. K (WEST )	18	PATHERDIH-M/C			37		
				BNR-7			19	TOTAL THIRTY SEVEN SIDING	
9	LODNA	GOL(6)	20						
		GOL(9)	21						
		C. K.( EAST )	22						