



File No: EC/SEIAA/2026-27/4098/2026

State Environment Impact Assessment Authority (SEIAA), Jharkhand

(Constituted as per the provision of EIA Notification, 2006, as amended by the Ministry of Environment, Forest and Climate Change, Government of India)



Dated: 11/07/2026

To,

Kailash Kumar
CENTRAL COALFIELDS LIMITED
CENTRAL COALFIELDS LIMITED, DARBHANGA HOUSE, KUTCHERY ROAD, RANCHI,
RANCHI, JHARKHAND, 834029
moef-parivesh.ccl@coalindia.in

Subject: Grant of Terms of Reference under the provision of the EIA Notification 2006-regarding.

Sir/Madam,

This is in reference to your application for Grant of Terms of Reference under the provision of the EIA Notification 2006-regarding in respect of project Saunda D Mine submitted to Ministry vide proposal number SIA/JH/CMIN/579786/2026 dated 06/06/2026.

2. The particulars of the proposal are as below:

(i) TOR Identification No.	TO26B0605JH5662361N
(ii) File No.	EC/SEIAA/2026-27/4098/2026
(iii) Clearance Type	TOR
(iv) Category	B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vi) Name of Project	Saunda D Mine
(vii) Name of Company/Organization	CENTRAL COALFIELDS LIMITED
(viii) Location of Project (District, State)	RAMGARH, JHARKHAND
(ix) Issuing Authority	SEIAA
(x) Applicability of General Conditions	no
(xi) Applicability of Specific Conditions	no

Plot/Survey Khasra Nos.:

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A and B) were submitted to the Ministry for an appraisal by the State Environment Impact Assessment Authority(SEIAA) Appraisal

Committee (SEIAA) in the Ministry under the provision of EIA notification 2006 and its subsequent amendments.

4. The above-mentioned proposal has been considered by State Environment Impact Assessment Authority (SEIAA) Appraisal Committee of SEIAA in the meeting held on 22/06/2026. The minutes of the meeting and all the Application and documents submitted [(viz. Form-1 Part A, Part B, Part C EIA, EMP)] are available on PARIVESH portal which can be accessed by scanning the QR Code above.
5. The brief about configuration of plant/equipment, products and byproducts and salient features of the project along with environment settings, as submitted by the Project proponent in Form-1 (Part A, B and C)/EIA & EMP Reports/presented during SEIAA are annexed to this EC as Annexure (1).
6. The SEIAA, in its meeting held on 22/06/2026, based on information & clarifications provided by the project proponent and after detailed deliberations recommended the proposal for grant of Terms of Reference under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of specific and general conditions as detailed in Annexure (2).
7. The SEIAA has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the State Environment Impact Assessment Authority (SEIAA) Appraisal Committee hereby decided to grant Terms of Reference for instant proposal of M/s. Kailash Kumar under the provisions of EIA Notification, 2006 and as amended thereof.
8. The Ministry reserves the right to stipulate additional conditions, if found necessary.
9. The Terms of Reference to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
10. This issues with the approval of the Competent Authority.

Copy To

1. The Member Secretary, CGWA, 18/11 Jamnagar House Man Singh Road, Central, Delhi, cgwa@nic.in
2. The Member Secretary, CPCB, Parivesh Bhawan Cbd-Cum-Office Complex East Arjun Nagar, East, Delhi, mscb.cpcb@nic.in
3. The Monitoring Cell MoEFCC, Compliance & Monitoring Division, Indira Paryavaran Bhawan Jor Bagh Road New Delhi, South, Delhi, moefcc-monitoring@gov.in

Annexure 1

Standard Terms of Reference for (Mining of minerals)

1.

S. No	Terms of Reference
1.1	An EIA-EMP Report would be prepared for a combined peak capacity ofMTPA for OC-cum-UG project which consists of MTPA in an ML/project area of ha for OC and MTPA for UG in an ML/project area of ha based on the generic structure specified in Appendix III of the EIA Notification 2006.
1.2	An EIA-EMP Report would be prepared for MTPA rated capacity to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling

S. No	Terms of Reference
	for..... MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data collection can be for any season (three months) except monsoon.
1.3	The ToRs prescribed for both opencast and underground mining are applicable for opencast – cum-underground mining.
1.4	Information on the following aspects of the corporate Environment Responsibility should also be provided for opencast, underground and opencast-cum-underground Min
1.5	Corporate Environment Responsibility:

Additional Terms of Reference

N/A

Annexure 2

Details of Products & By-products

Name of the product /By-product	Product / By-product	Quantity	Unit	Mode of Transport / Transmission	Remarks (eg. CAS number)
Coal	Coal	6.21	MTPA	Combination of two or three modes	Road/Rail



State Level Environment Impact Assessment Authority, Jharkhand

Nursery Complex, Near Dhurwa Bus Stand, P.O+P.S-Dhurwa, Ranchi, Jharkhand-834004

E-mail: msseiaa.jhk@gmail.com / website: www.jseiaa.in

Letter No : EC/SEIAA/2026-27/4098/2026/

Ranchi, Date :

**To: Shri P. K. Sinha,
GM / HOD (Env.),
M/s Central Coalfields Limited,
Darbhanga House, P.O. : Ranchi,
District : Ranchi, Jharkhand : 834001.**

Sub: Prescribing of ToR to "Saunda D Coal Mine (Rated and Peak capacity 6.21 MTPA) of M/s Central Coalfields Ltd. Located at South Karanpura Coalfield (Barka Sayal Area, Central Coalfields Limited), Saunda D Coal Block, Village : Saunda, Post : Patratu, Distt. : Ramgarh, Jharkhand (447.94 Ha) (Proposal no.: SIA/JH/CMIN/579786/2026) - regarding.

Ref: Your application no. SND-D/01/PO/TOR/26/385, dated : 06.06.2026.

Sir,

It is in reference to the project "Saunda D Coal Mine (Rated and Peak capacity 6.21 MTPA) of M/s Central Coalfields Ltd. Located at South Karanpura Coalfield (Barka Sayal Area, Central Coalfields Limited), Saunda D Coal Block, Village : Saunda, Post : Patratu, Distt. : Ramgarh, Jharkhand (447.94 Ha)" submitted by you for seeking Terms of Reference (ToR).

This is a new project which has been taken for appraisal on 13.06.2026.

Project Sector: 1(a) Mining of Minerals (Coal), Category: B1.

Application for Terms of Reference (ToR) for Saunda D coal mine (Opencast, Underground, Highwall mining), Capacity 6.21 MTPA within total project activity area of 447.94 Ha.

The project is for reopening of the Saunda-D Coal Mine, located in the South Karanpura Coalfield, Jharkhand of Central Coalfields Limited (CCL), a subsidiary of Coal India Limited. The mine was operational prior to nationalization and was subsequently vested with CCL under the Coal Mines (Nationalisation) Act, 1973. The Mine has also obtained Environmental Clearance from MoEFCC vide dated 23.12.1993 through both Opencast and Underground mining methods.

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

Mining operations were discontinued in 2017, due to techno-commercial constraints. The project is now proposed for reopening through a combination of Opencast, Underground and Highwall Mining methods for extraction of 147.96 Million Tonnes of coal over a mine life of 25 years at a rated production capacity of 6.21 MTPA.

The Total Project Activity Area is 447.94 Ha, comprising 332 Ha of mining area, 74.54 Ha of adjoining decoaled area proposed for external dumping-1 and 41.40 Ha area for external dumping-2.

The proposed mining project is an interlinked project, wherein External Dump-2 (41.40 ha) falls under Bhurkunda Coal Mine and this dump area will be utilized after exhaustion of OC Mining of Bhurkunda Coal Mines.

STATUTORY CLEARANCES:

Particulars	Permission details	Remarks
EC	J-11015/17/92-IA.II(M) dated 23.12.1993	EC does not fall under EIA notification 1994 and 2006
FC stage-I	F.No.8-126/1990-FC dated 08.04.1993 for 99.69 Ha.	Valid for 10 years
FC stage-II	F.No.8-126/1990-FC dated 27.03.1997 for 99.69 Ha.	Valid for 10 years
FC stage-I renewal	F.No.8-126/1990-FC(pt) dated 08.07.2010 for 99.69 Ha.	Valid for 20 years
FC stage-II renewal	Applied for 99.69 Ha forest area.	Under process (NPV submitted)
EC Bhurkunda Colliery	F.No. 23-266/2018-IA.III (V) dated 13.07.2022	Interlinked Project
LOA	Ref No. CCL/GM(CMC)/MDO RS/Saunda-D/B-S area/NIT37/LOA /2023 dated 14.09.2023	LOA for the work of reopening, Salvaging, rehabilitation, development and operation of Saunda D coal mine issued by CCL

[Signature]

[Signature]

[Signature]

1	Land Docs	:	Project area acquired under CBA Act, 1957, Land Acquisition Act, 1894 and Coal Mines Nationalisation Act, 1973.
2	CO	:	The CO, Patratu (Ramgarh) vide letter no. 97, dated 02.02.2026 has mentioned the plot no. of the project is recorded as "Jungle Jhari" in R.S. Khatiyan & Register II.
3	DFO Wild Life	:	DFO Wildlife, Hazaribagh vide letter no. 305, dated 13.02.2026 & letter no. 758, dated 07.04.2026 certified that the proposed project site is outside Eco Sensitive Zone of Hazaribagh Wildlife Sanctuary.
4	DFO Territorial	:	DFO, Ramgarh vide letter no. 228, dated 12.02.2026 & letter no. 608, dated 08.04.2026 certified that the proposed plot is within the notified forest boundary.
5	Mine Plan Approval	:	Mine plan approved by Company Secretary, Central Coalfields Limited, Darbhanga House, Ranchi vide Ref. No. C.S./B.M./552/2025/358, dated 06.11.2025
6	Baseline study period	:	December, 2023 to February, 2024.

Land Details

S.No	Particulars	Forest Land (Ha)	Non-Forest Land (Ha)	Total Area (Ha)
1	Excavation Area, Embankment, Road diversion and Safety Zone (within lease area of Saunda D project)	203.48	128.52	332
2	External OB Dump 1 (falling within the project boundary of Central Saunda Colliery)	57.98	16.56	74.54
3	External OB Dump 2 (falling within the project boundary of Bhurkunda Colliery)	27	14.40	41.40
Total Area in Ha		288.46	159.48	447.94

Further, the detailed status of the forest land falling within Saunda-D project area is reproduced below:

S.No	Total Area of Forest Land (Ha)	Status	Undertaking
1	99.69	- Renewal of Stage-I FC granted by MoEF& CC vide letter no. 8-126/1990-FC(Pt) Dated: 08.07.2010. - Stage-II FC renewal is under process.	Stage – I / Stage-II FC renewal of 99.69 Ha. will be submitted along with final EC application for the project.
2	161.77	A letter has been obtained from DFO, Ramgarh vide letter no: 38 Dated: 06.01.2026 certifying that the said Forest Land involved with in the project boundary is broken prior to 1980.	An application has been submitted to DFO, Ramgarh for permission of non-forestry use of the broken-up forest land (broken before 1980) involved within the project vide Ref. no. PO/SND-D/2024/426 dated: 18.10.2024 and is currently under process. Stage-I FC of forest land involved within the project that has already been broken before 1980 (if applicable) or NOC from DFO, Ramgarh confirming the non-applicability of FC Act, 1980 including any further subsequent amendments in this regard issued by MoEF&CC, shall be submitted at the time of submission of final EC application.
3	27	A letter has been obtained from PCCF-cum-ED Nodal, Jharkhand vide no: 412 Dated: 18.05.2022 certifying that the entire forest land falling within the project boundary of Bhurkunda	Stage-I FC of forest land involved within the project that has already been broken before 1980 (if applicable) or NOC from DFO, Ramgarh confirming the non-applicability of FC Act, 1980 including any further subsequent

[Signature]

[Signature]

[Signature]

		Colliery is broken prior to 1980.	amendments in this regard issued by MoEF&CC, shall be submitted at the time of submission of final EC application.
--	--	-----------------------------------	--

Plot and Khata No.

The plot and Khata number details of entire project area of 447.94 Ha. Is provided below.
Mine Area 332 Ha.

Sl. No.	Khata No.	Plot No.	Sl. No.	Khata No.	Plot No.	Sl. No.	Khata No.	Plot No.
1	139	4 P	130	72	133	259	1	262
2	83	5 P	131	83	134	260	9	263
3	138	6	132	8	135	261	126	264
			133	8	136	262	138	265
4	1	7	134	138	137	263	85	266
5	139	8	135	60	138	264	85	267
6	139	9	136	46	139	265	138	268
7	138	10	137	42	140	266	85	269
			138	46	141	267	140	270
8	138	11	139	81	142	268	51	271
			140	78	143	269	140	272
9	1	12	141	46	144	270	7	273
10	83	13	142	42	145	271	12	274
			143	42	146	272	32	275
11	113	14	144	42	147	273	32	276
12	113	15	145	42	148	274	17	277
13	109	16	146	42	149	275	17	278
14	111	17	147	42	150	276	140	279

15	105	18	148	42	151	277	1	280
16	105	19	149	42	152	278	32	281
17	140	20	150	42	153	279	32	282
18	40	21	151	42	154	280	15	283
19	109	22	152	2	155	281	28	284
20	109	23	153	83	156	282	28	285
21	28	24	154	2	157	283	1	286
22	28	25	155	78	158	284	15	287
23	66	26	156	138	159	285	15	288
24	10	27	157	83	160	286	32	289
25	10	28	158	138	161	287	1	290
26	111	29	159	36	162	288	83	291
27	139	30	160		163	289	17	292
28	2	31	161		164	290	1	293
29	18	32	162	116	165	291	1	294
30	139	33	163	109	166	292	138	295
31	140	34	164	138	167	293	83	296
32	57	35	165	129	168	294	1	297
33	5	36	166	129	169	295	1	298
34	139	37	167		170	296	83	299
35	107	38	168		171	297	1	300
36	36	39	169	91	172	298	83	301
37	1	40	170	111	173	299	14	302
38	139	41	171	11	174	300	68	303
39	1	42	172	11	175	301	63	304

GAJ

A.

Op

40	3	43	173	4	176	302	63	305
41	138	44	174		177	303	140	306
			175	138	178	304	139	307
42	36	45	176	91	179	305	138	308
43	36	46	177	91	180	306	116	309
44	51	47	178	91	181	307	116	310
45	51	48	179	70	182	308	94	311
46	61	49	180	1	183	309	116	312
47	61	50	181	140	184	310		313
48	61	51	182	1	185	311	116	314
49	138	52	183	83	186	312	116	315
50	1	53	184	91	187	313	138	316 P
51	1	54	185	83	188			
52	91	55	186	2	189	314	15	317
53	91	56	187	11	190	315	42	318
54	90	57	188	95	191	316	32	319
55	90	58	189	95	192	317	83	320
56	91	59	190	95	193	318	32	321
57	1	60	191	18	194	319	15	322
58	1	61	192	95	195	320	15	323
59	1	62	193	95	196	321	83	324 P
60	11	63	194	1	197	322	32	325
61	83	64	195	90	198	323	32	326
62	138	65	196	1	199	324	14	327
			197	87	200	325	32	328

02/01

1

24

63	8	66	198	89	201	326	51	329
64	11	67	199	89	202	327	26	330
65	5	68	200	91	203	328	4	331
66	107	69	201	91	204	329	14	332
67	139	70	202	136	205	330	4	333
68	36	71	203	113	206	331	4	334
69	36	72	204	130	207	332	11	335
70	138	73	205	136	208	333	50	336
71	138	74	206	138	209	334	50	337
72	1	75	207	24	210	335	11	338
73	1	76	208	113	211	336	50	339
74	138	77	209	134	212	337	14	340
75	46	78	210	138	213	338	17	341
76	110	79	211	89	214	339	83	342
77	83	80	212	87	215	340	139	343
78	11	81	213	87	216	341	139	344
79	11	82	214	87	217	342	6	345
80	11	83	215	89	218	343	139	346
81	2	84	216	88	219	344	139	347
82	2	85	217	85	220	345	10	348
83	138	86	218	138	221	346	16	349
84	91	87	219	138	222	347	16	350
85	140	88	220	126	223	348	6	351
86	95	89	221	85	224	349	26	352
87	93	90	222	137	225	350	42	353

00A1

1

20

88	95	91	223	79	226	351	42	354
89	83	92	224	98	227	352	42	355
90	93	93	225	115	228	353	42	356
91	11	94	226	98	229	354	42	357
92	4	95	227	138	230	355	42	358
93	83	96	228	95	231	356	42	359
94	83	97	229	95	232	357	1	360
95	83	98	230	12	233	358	1	361
96	83	99	231	12	234	359	123	362
97	1	100	232		235	360	2	363
98	1	101	233	79	236	361	2	364
99	5	102	234	83	237	362	15	365
100	118	103	235	83	238	363	61	366
101	5	104	236	138	239	364	14	367
102	91	105	237	138	240	365	32	368
103	43	106	238	139	241	366	56	369
104	126	107	239	136	242	367	61	370
105	1	108	240	1	243	368	61	371
106	72	109	241	1	244	369	140	372
107	103	110	242	1	245	370	14	373
108	91	111	243	138	246	371	4	374
109	91	112	244	53	247	372	20	375
110	11	113	245	61	248	373	18	376
111	4	114	246	28	249	374	15	377
112	138	115	247	83	250	375	20	378

24

1

24

113	43	116	248	83	251	376	83	379
114	96	117	249	56	252	377	11	380
115	99	118	250	42	253	378	32	381
116	138	119	251	42	254	379	31	382
117	99	120	252	42	255	380	64	383
118	99	121	253	42	256	381	83	384
119	1	122	254	46	257	382	9	385
120	98	123	255	42	258	383	11	386
121	107	124	256	91	259	384	61	387
122	69	125	257	140	260	385	1	388P
123	1	126	258	139	261	386	9	424 P
124	99	127	-	-	-	387	2	427
125	138	128	-	-	-	-	-	-
126	1	129	-	-	-	-	-	-
127	1	130	-	-	-	-	-	-
128	43	131	-	-	-	-	-	-
129	43	132	-	-	-	-	-	-

Sl. No.	Khata No.	Plot No.	Sl. No.	Khata No.	Plot No.
388	83	428	517	30	557
389	14	429	518	52	558
390	14	430	519	34	559
391	14	431	520	54	560
392	9	432 P	521	66	561

393	83	433	522	30	562
394	9	434	523	59	563
395	9	435	524	20	564
396	2	436	525	58	565
397	83	437	526	58	566
398	2	438	527	59	567
399	14	439	528	59	568
400	18	440	529	58	569
401	20	441	530	30	570
402	38	442	531	101	571
403	18	443	532	101	572
404	20	444	533	37	573
405	140	445	534	58	574
406	61	446	535	73	575
407	83	447	536	75	576
408	61	448	537	75	577
409	28	449	538	37	578
410	83	450	539	1	579
411	61	451	540	38	580
412	1	452	541	100	581
413	13	453	542	100	582
414	55	454	543	100	583
415	19	455	544	100	584
416	61	456	545	138	585
417	47	457	546		586

24

D
+

24

418	56	458	547	66	587
419	137	459	548		588
420	51	460	549	18	589
421	123	461	550	18	590
422	91	462	551		591
423	9	463	552	18	592
424	51	464	553	140	593
425	61	465	554	106	594
426	83	466	555	59	595
427	20	467	556	58	596
428	1	468	557	48	597
429	83	469	558	100	598
430	109	470	559	33	599
431	1	471	560	66	600
432	67	472	561	38	601
433	20	473	562	102	602
434	1	474	563	56	603
435	44	475	564	6	604
436	1	476	565	101	605
437	140	477	566	12	606
438	49	478	567	62	607
439	57	479	568	109	608
440	26	480	569	65	609
441	1	481	570	20	610
442	26	482	571	39	611

443	57	483	572	24	612
444	140	484	573	10	613
445	80	485	574	33	614
446	80	486	575	79	615
447	127	487	576	33	616
448	127	488	577	50	617
449	61	489	578	39	618
450	124	490	579	39	619
451	135	491	580	21	620
452	135	492	581	21	621
453	14	493	582	33	622
454	14	494	583	106	623
455	3	495	584	54	624
456	3	496	585	54	625
457	10	497	586	106	626
458	16	498	587	82	627
459	10	499	588	82	628
460	16	500	589	82	629
461	132	501	590	94	630
462	138	502	591	64	631
463	83	503	592	9	632
464	77	504	593	24	633
465	125	505	594	9	634
466	45	506	595	35	635
467	125	507	596	9	636

2021

1

20

468	77	508	597	5	637
469	10	509	598	131	638
470	126	510	599	131	639
471	126	511	600	131	640
472	138	512	601	114	641
473	140	513	602	9	642
474	1	514	603	9	643
475	123	515	604	35	644
476	123	516	605	29	645
477	138	517	606	32	646
478	133	518	607	42	647
479	133	519	608	12	648
480	5	520	609	115	649
481	10	521	610	71	650
482	133	522	611	71	651
483	123	523	612	83	652
484	100	524	613	137	653
485	5	525	614	42	654
486	74	526	615	103	655
487	74	527	616	86	656
488	23	528	617	138	657
489	76	529	618	87	658
490	76	530	619	42	659
491	140	531	620	46	660
492	57	532	621	69	661

GA

D
I

DP

493	14	533	622	1	662
494	41	534	623	36	663
495	1	535	624	116	664
496	5	536	625	86	665
497	14	537	626	140	666
498	25	538	627	140	667
499	10	539	628	95	668
500	41	540	629	87	669
501	75	541	630	1	670
502	127	542	631	42	671
503	127	543	632	1	672
504	122	544	633	1	673
505	27	545	634	83	674
506	122	546	635	9	675
507	122	547	636	61	676
508	73	548	637	61	677
509	22	549	638	83	678
510	140	550	639	138	679
511	57	551	640	72	133/ 684
512	6	552	641	81	148/ 683
513	22	553	642	83	424/ 682 P
514	37	554	643	138	426/ 686 P
515	20	555	644	26	480/ 680
516	20	556	645	57	452/ 681

74.54 Ha of Area (Ext. Dump-1)

Khata No.	Plot No.	Khata No.	Plot No.
83	5	83	406
138	316	83	407
83	324	15	408
140	372	96	409
1	388	1	415
9	389	9	416
83	390	83	417
12	391	9	420
12	392	83	421
1	393	9	422
83	394	83	423
17	398	9	424
12	399	9	425
83	400	1	426
12	401	9	432
83	402	83	433
9	403	83	424/682
12	404	138	426/686
9	405		

41.40 Ha of Area (Ext Dump-2)

Sl. No.	Plot No.
1	1277(P)
2	1283(P),
3	1284(P),
4	1285(P),
5	1288,
6	1289(P),
7	1290,
8	1291
9	1292
10	1297 (P)
11	1298(P)
12	1299(P),
13	1293

Handwritten signature

Handwritten signature

Handwritten signature

14	1294
15	1295
16	1296
17	1303(P),
18	1304(P),
19	1305
20	1306
21	1307(P)
22	1308
23	1309
24	1310(P)
25	1311
26	1312
27	1313
28	1314(P)
29	1315(P)
30	1316(P)

Project and Location details

Sl. No.	Particulars	Details
1	Project Name	Saunda D Coal Mine (6.21 MTPA)
2	Project Proponent	Central Coalfields Limited (CCL)
3	Project Activity Area	447.94 Ha
4	Forest Land	288.46 Ha (Forest clearance under process for 99.69 Ha. & remaining 188.77 Ha. is broken up forest land before 1980, FC is not applicable)
5	Non-Forest Land	159.48 Ha
6	Project Cost	Rs. 834.82 Crores
7	Mine Life	25 Years
8	Extractable Coal Reserve	147.96 Million Tonnes
9	Geological Reserve	294.42 Million Tonnes
10	Total Overburden	346.76 Million m ³
11	Top Soil	7.0 Million m ³
12	Average Stripping Ratio	3.37 m ³ /t

NA

D

2p

13	Employment Potential	1459 Persons
14	Water Requirement	1173 KLD
15	Water Source	Ground water through Borewell and Mine seepage
16	Power Requirement	5 MVA Emergency Purpose – 500 KVA DG set
17	Average Coal Grade	G-6

Land Use Planning

During Mining Land use

S.No.	Name of the Area	Area (Ha.)
1	Excavation Area	302.54
2	External Dump	115.94
3	Safety Zone	14.92
4	Road	9.067
5	Embankment	5.47
Total		447.94

Post Mining Land use

Details	Land Use (Proposed)	Land Use (PostClosure)							Total
		Land Use (end of life)	Agriculture	Plantation	Water Body	Public/ Company Use	Undisturbed	Forest Land (Returned)	
Quarry	302.54								0
Backfilled		262.59	72.77	189.82					262.59
Excavated Void		39.95			39.95				39.95
External Dump	115.94	115.94		115.94					115.94
Safety Zone	14.92	14.92					14.92		14.92

[Signature]

[Signature]

[Signature]

Road	9.067	9.067				9.067			9.067
Embankment	5.47	5.47		5.47					5.47
Total	447.94	447.94	72.77	311.23	39.95	9.067	14.92	288.46	447.94

Production Details

Year of Operation	Coal Production Schedule (Lte)				OB Removal (L m³)
	OC	UG	High Wall	Total	
Y-1	17.60	-	-	17.60	96.9
Y-2	35.50	-	-	35.50	146.9
Y-3	62.00	-	-	62.00	221.0
Y-4	62.00	-	-	62.00	217.9
Y-5	62.00	-	-	62.00	221.1
Y-6	62.00	-	-	62.00	209.0
Y-7	62.00	-	-	62.00	206.8
Y-8	62.00	-	-	62.00	206.8
Y-9	62.00	-	-	62.00	206.8
Y-10	62.00	-	-	62.00	192.0
Y-11	62.00	-	-	62.00	192.0
Y-12	62.00	-	-	62.00	192.0
Y-13	62.00	-	-	62.00	198.0
Y-14	60.00	1.10	1.00	62.10	198.0
Y-15	52.10	5.00	5.00	62.10	168.6
Y-16	47.10	10.00	5.00	62.10	155.4

NA

1

NA

Y-17	32.10	25.00	5.00	62.10	105.9
Y-18	32.10	25.00	5.00	62.10	105.9
Y-19	32.00	25.00	5.00	62.00	105.6
Y-20	32.00	25.00	5.00	62.00	105.6
Y-21	20.00	25.00	17.00	62.00	60.0
Y-22	7.80	25.00	29.20	62.00	19.5
Y-23	0	30.00	32.00	62.00	-
Y-24	0	30.00	32.00	62.00	-
Y-25	0	30.00	32.00	62.00	-
Total	1050.30	256.10	173.20	1479.60	3537.6

Equipment Details

Equipment Name	Capacity	Numbers
Overburden		
Diesel Hyd Shovel	8/10 cum	6
Diesel Hyd Shovel	3.8 cum	6
Rear Dumper	35 T	50
Rear Dumper	50 T	25
Diesel RBH Drill	160 mm	16
Dozer	410 HP	16
Coal		
FE Loader	5 cum	6
Rear Dumper	35 T	31
Dozer	410 HP	6
Diesel RBH Drill	160 mm	4
Common		
Diesel Hyd Backhoe	2-3 Cum	1
Grader	250-280 HP	1
Wheel Dozer	460 HP	1
R T Crane	20 T	1
Mobile Crane	8-14 T	1
Dozer with Ripper	750-850 HP	1

Equipment Name	Capacity	Numbers
Tyre Handler	35 kN	1
Reclamation		
Water Sprinkler	28 KL	1
Water Sprinkler	28 kL	2
FE Loader	5-6 cum	3
Dumper	40 T	6
Dozer	410 HP	3
Compactor	100 HP	4

Coordinates

Mine Area Lat.: 23°39'12" N to 23°40'23" N and Long.: 85°19'24" E to 85°20'54" E

Dump I: Lat.23°39'56" N to 23°40'39" N and Long.: 85°19'58" E to 85°20'43" E

Dump II: Lat. 23°38'52" N to 23°39'14" N and Long.: 85°20'0" E to 85°20'32" E

Salient Features of Project

- Legacy coal mining project operating since pre-independence era and vested with CCL after nationalization.
- Project area acquired under CBA Act, 1957, Land Acquisition Act, 1894 and Coal Mines Nationalisation Act, 1973
- No fresh land acquisition involved.
- Resettlement and rehabilitation are involved in the project for which activities and study will be carried out as per existing policies of CCL and relevant govt policies.
- Road diversion & Transmission line diversion is also involved in the project for which permissions will be obtained from the concerned department.
- Due to previous mine operations the water is accumulated in the excavated pits which will be removed/utilized before start of mining.

Mining Details

Mining Method: Opencast, Underground, Highwall mining

Number of Coal seams : 22 Coal Seams

19 upper seams will be extracted through opencast mining, 3 deeper seams will be mined using underground methods and Coal trapped under quarry batters will be recovered through high-wall mining

Working Depth: Minimum - 27.15 m and Maximum - 350 m

Ground water level – Maximum GWL is 3.8 m and minimum GWL is 1.5 m. The dewatering will be taken up at the end of 1st year as the mine intersects the ground water table in the end of 1st year itself.

NAJ

1

BP

Coal Transportation

The mine is strategically located near key transportation infrastructure. Coal will be transported from mine to the stock yard and then to Nearest railway siding (Saunda B siding) at 0.95 km. Pay-loaders shall be used for wagon loading at the siding.

The mine area is situated approximately 1.60 Km from Patratu town and is well connected through the Bhurkunda–Patratu–Ranchi road. Patratu Railway Station is located at a distance of 1.90Km while Bhurkunda Railway Station lies at 3.36 Km.

Greenbelt

The total Safety Zone area of the mine is 14.92 ha, wherein greenbelt development is proposed at a plantation density of 2,500 saplings per hectare. Accordingly, approximately 37,300 saplings will be planted within the Safety Zone area. Further, upon completion of mining operations, the excavated pit will be backfilled in a phased manner, and plantation over the reclaimed backfilled area will be undertaken as per environmental norms

Environmental Setting

Sl. No.	Particulars	Details			
1	Nearest Highway	SH-2 – 2.4 km in South Direction			
2	Nearest Railway Station	Bhurkunda Railway station - 3.36 km in SE direction. Patratu railway station - 1.90Km in WNW direction			
3	Nearest Airport	Birsu Munda Airport, Ranchi located at approximately 36.6 km			
4	Nearest Town/City	Ramgarh			
5	Interstate Boundary	None within 10 km radius			
6	Nearest Water Body	Water-body	Distance (Km)	Direction	
		Nakari Nadi	adjacent to the mine boundary	South	
		Damodar river	1.41 Km	NE	
7	Reserve / Protected Forests	List of Protected Forest <u>Protected Forest</u> Few Protected Forest within the 10 km study area			

		• PF near Kurse, Bhurkunda is at 0.30km in SSE direction • Ghagra PF is at a distance of 2.33km in North direction • Sankul PF is at a distance of 2.36km in NW direction • Koto PF is at a distance of 6.58km in SW direction.
--	--	--

Baseline data collection period: 1st December 2023 to 28th February 2024. The summary of baseline data is provided below.

Parameters	Baseline Status	Permissible Level
Ambient Air Quality	PM10 –59.2 to 78.8µg/m ³ PM2.5 – 26.6 to 43.8µg/m ³ SO2 –2.5 to 17.2 µg/m ³ NOX – 10.6 to 30.0 µg/m ³ CO – 0.42 to 0.91 mg/m ³	100 µg/ m ³ 60 µg/ m ³ 80 µg/ m ³ 80 µg/ m ³ 02 mg/m ³
Noise Level	The Leq values at this location for day and night time was observed to be 70.44 dB(A) to 47.3 dB(A) and 49.48 dB(A) to 38.71 dB(A) respectively.	75 Leq dB (A) D 70 Leq dB (A) N
Water Quality	Ground Water: All the Parameters Like pH: Min 7.56, Max 7.99, TotalHardness varies from Min 237 mg/L, Max 296 mg/L, TotalDissolvedSolids varies from Min 421 mg/L, Max 489 mg/L, Chlorides –Min 69.77 mg/L, Max 79.84 mg/L etc. are found within the permissible limits.	IS:10500:2012
	Surface Water: All the Parameters like pH varies from Min 7.21, Max 7.74, TotalHardness varies from Min 368 mg/L, Max 468 mg/L, Nitrate varies from Min 37.48 mg/L, Max 51.64 mg/L, Chloride varies from Min 93.28 mg/L, Max 126.27 mg/L, DissolvedOxygen – Min 6.0 mg/L, Max 6.5 mg/L etc. are found within the permissible limits.	IS:2296 Class C Norms
Soil Quality	pH: Min 7.33, Max 7.69, Conductivity: Min 0.395 mS/cm, Max 0.506 mS/cm, Sodium: Min 176.55 mg/kg, Max 189.57 mg/kg, Potassium: Min 50.24 mg/kg, Max	--

ant

1

2p

	151.47 mg/kg, Available Nitrogen: Min 162.41 kg/ha, Max 178.82 kg/ha	
--	--	--

Environmental Management and Mine Closure

- Progressive backfilling has been incorporated into the mine plan from the 5th year onwards.
- Initial overburden will be accommodated in designated external dumps and decoaled areas.
- Temporary and external dumps shall be progressively rehandled and utilized for backfilling of mined-out areas.
- The entire excavation area is proposed to be reclaimed through systematic backfilling and rehandling of overburden.
- Biological reclamation, plantation and ecological restoration have been integrated into the mine closure plan.

SEAC, Jharkhand has suggested the ToRs in its 132nd meeting held on 09th, 10th, 11th, 12th, 13th, 14th and 15th June, 2026 for undertaking detailed EIA / EMP study and SEIAA, Jharkhand has approved the ToRs in its 132nd meeting held on 22nd, 23rd & 24th June, 2026. The SEAC has recommended following project specific conditions:-

The TORs prescribed for undertaking detailed EIA study are as follows:

1. The directions proscribed and prescribed in the Office Memorandum No. FC-11/119/2020-FC, Dated : 17th May, 2022 of MoEF&CC shall be strictly adhered to.
2. In compliance of OM no. F.No. IA3-22/3/2024-IA.III (E-241594) dated 24.07.2024 of MoEF&CC, Govt. of India plantation of saplings shall be carried out in the earmarked green belt area as the part of tree plantation campaign "*Ek Ped Ma Ke Naam*" and the details of the same shall be uploaded in the MeriLiFE Portal (<https://merilife.nic.in>). 10% of the total green belt proposed shall be allocated under this clause.
3. PAs shall obtain Stage-I Clearance under Forest (Conservation) Act, 1980 or certificate from DFO, Ramgarh Forest Division stating that Forest (Conservation) Act, 1980 is not applicable on the forest land area within the project before submission of the application for final EC.
4. The EIA Report shall be prepared MTPA rated capacity in an ML / project area of ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
5. An EIA-EMP Report would be prepared for MTPA rated capacity to cover the impacts and management plan for the project specific activities on the environment of the

gaf

D
X

BP

region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for MTPA of coal production based on approved project/Mining Plan for MTPA. Baseline data collection can be for any season except monsoon.

6. A map specifying locations of the State, District and Project location should be provided.
7. A Study area map of the core zone and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries/mines and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given.
8. Land use map (1: 50,000 scale) based on a recent satellite imagery of the study area may also be provided with explanatory note on the land use.
9. Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.
10. A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.
11. A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.
12. In case of any proposed diversion of nallah/canal/river, the proposed route of diversion /modification of drainage and their realignment, construction of embankment etc. should also be shown on the map as per the approval of Irrigation and Flood Control Department of the concerned state.
13. Similarly if the project involves diversion of any road/railway line passing through the ML/project area, the proposed route of diversion and its realignment should be shown in the map.

02/11

1

12

14. Break up of lease/project area as per different land uses and their stage of acquisition should be provided.

Land use details for opencast project should be given as per the following table :

S. N.	Land use	Within ML area	Outside ML area	Total
1.	Agricultural land			
2.	Forest land			
3.	Wasteland			
4.	Grazing land			
5.	Surface water bodies			
6.	Settlements			
7.	Others (specify)			

15. Break-up of lease/project area as per mining operations should be provided.
16. Impact of changes in the land use due to the project, if much of the land being acquired is predominantly agricultural land/forestland/grazing land.
17. One-season (non-monsoon) primary baseline data on environmental quality - air (PM10, PM2.5, SOx, NOx and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided.
18. Map of the study area (1: 50, 000 scale) (core and buffer zone clearly delineating the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources should be provided. The number and location of the stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Values should be provided based on desirable limits.
19. Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora fauna and, or if the area is occasionally visited or used as a habitat by Schedule-I fauna, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan should be prepared and submitted with EIA-EMP Report; and comments from the CWLW of the State Govt. should also be obtained and furnished.
20. Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar

[Signature]

[Signature]

[Signature]

plans of production from the approved Mining Plan. Geological maps and sections should be included.

21. Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.
22. Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.
23. Detailed water balance along with flow chart should be provided. The break-up of water requirement for the various mine operations should be given separately.
24. Source of water for use in mine, sanction of the competent authority in the State Govt. and impacts vis-à-vis the competing users should be given.
25. Impact of mining and water abstraction use in mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
26. Impact of blasting, noise and vibrations should be given.
27. Impacts of mining on the AAQ and predictions based on modeling using the ISCST-3 (Revised) or latest model should be provided.
28. Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop, management plan for maintenance of HEMM, machinery, equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
29. Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP / Silo entirely wagons and into trucks / tippers.
30. Details of waste OB and topsoil generated as per the approved calendar programme, and their management shown in figures as well explanatory notes tables giving progressive development and mine closure plan, green belt development, backfilling programme and conceptual post mining land use should be given. OB dump heights and terracing based on slope stability studies with a max of 28° angle as the ultimate slope should be given. Sections of final dumps (both longitudinal and cross section) with relation to the adjacent area should be shown.

GAH

D

BP

31. Efforts be made for maximizing progressive internal dumping of O.B., sequential mining , external dump on coal bearing area and later rehandling into the mine void.--to reduce land degradation.
32. Impact of change in land use from mining operations and whether the land can be restored to agriculture use post mining.
33. Progressive Green belt and Ecological restoration /afforestation plan (both in text, figures and in the tabular form as per the format of MOEF&CC given below) and selection of species (native) based on original survey/land use should be given.
34. Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the status of pre- mining should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of rehandling (wherever applicable) and backfilling and progressive mine closure and reclamation should be detailed.

Table 3 : Post-Mining land use pattern of ML / Project area (ha)

Land use during mining	Land use (ha)				
External OB dump	Plantation	Water body	Public use	Undisturbed	Total
Top soil dump					
Excavation					
Roads					
Built up area					
Green belt					
Undisturbed area					
	Total				

35. Flow chart of water balance should be provided. Treatment of effluents from workshop, township, domestic wastewater, mine water discharge, etc. should be provided. Details of STP in colony and ETP in mine should be given. Recycling of water to the max. possible extent should be accorded ?.
36. Occupational health issues. Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower in the mine should be given.
37. Risk Assessment and Disaster Preparedness and Management Plan should be provided.
38. Integration of the Environmental Management Plan with measures for minimizing use of natural resources - water, land, energy, etc. should be carried out.
39. Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.

[Signature]

[Signature]

[Signature]

40. Details of R&R. Detailed project specific R&R Plan with data on the existing socio-economic status of the population (including tribals, SC/ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.
41. CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.
42. Corporate Environment Responsibility:
 - a) The Company must have a well laid down Environment Policy approved by the Board of Directors.
 - b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
 - c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.
 - d) To have proper checks and balances, the company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.
43. Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/minutes of public hearing, the points raised by the general public and commitments made by the proponent and the action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.
44. In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.
45. Status of any litigations/ court cases filed/pending on the project should be provided.
46. Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.
47. Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closer plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.

may

D
X

2p

Details on the Forest Clearance should be given as per the format given :

Total ML / Project area (ha)	Total forest land (ha)	Date of FC	Extent of forest land	Balance area for which FC is yet to be obtained	Status of application for diversion of forest land

48. Besides the above, the below mentioned general points should also be followed:-

- A note confirming compliance of the TOR, with cross referencing of the relevant sections / pages of the EIA report should be provided.
- All documents may be properly referenced with index and continuous page numbering.
- Where data are presented in the report especially in tables, the period in which the data were collected and the sources should be indicated.
- Where the documents provided are in a language other than English, an English translation should be provided.
- The Questionnaire for environmental appraisal of mining projects as prescribed by the Ministry shall also be filled and submitted.
- Approved mine plan along with copy of the approval letter for the proposed capacity should also be submitted.
- While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF vide O.M. No. J-11013 /41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry should also be followed.
- Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the F.R for securing the TOR) should be brought to the attention of SEIAA, Jharkhand with reasons for such changes and permission should be sought, as the TOR may also have to be altered.

The EIA report should also include

- Surface plan of the area indicating Contours of main topographic features, drainage and mining area.

6/2/21

D
/

Rp

2. Geological maps and sections and

3. Sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

49. After preparing the draft EIA (as per the generic structure prescribed in Appendix- III of the EIA Notification, 2006) covering the above mentioned issues, the proponent will get the public hearing conducted and take further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.
50. The Prescribed ToRs is valid as per O.M. F. No. IA3-22/10/2022-IA.III[E177258], dated 08.06.2022 of MoEF & CC, Govt. of India.

Sd/-
Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.

Memo No : EC/SEIAA/2026-27/4098/2026/ 36

Ranchi, Date : 06.07.2026

Copy to:

1. Member Secretary, Jharkhand State Pollution Control Board, Ranchi for information and necessary action.
2. Regional Office, Ministry of Environment, Forest and Climate Change, Govt. of India, 2nd Floor, Jharkhand State Housing Board (HQ), Harmu Chowk, Ranchi, Jharkhand – 834002.
3. Member Secretary, SEAC, Jharkhand, Ranchi for information and necessary action.


Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.

