



सत्यमेव जयते

File No: EC/SEIAA/2025-26/3885/2025

Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment
Authority(SEIAA), JHARKHAND)



Dated 12/09/2025



To,

Anuj Kumar
CENTRAL COALFIELDS LIMITED
CENTRAL COALFIELDS LIMITED, DARBHANGA HOUSE, KUTCHERY ROAD, Churi ,
RANCHI, JHARKHAND, 829210
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 Churi Benti UG Mine submitted to Ministry vide proposal number SIA/JH/CMIN/519883/2025 dated 18/07/2025.

2. The particulars of the proposal are as below :

(i) TOR Identification No.	TO25B0102JH5490217N
(ii) File No.	EC/SEIAA/2025-26/3885/2025
(iii) Clearance Type	TOR
(iv) Category	B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vii) Name of Project	Churi Benti UG Mine
(viii) Name of Company/Organization	CENTRAL COALFIELDS LIMITED
(ix) Location of Project (District, State)	RANCHI, JHARKHAND
(x) Issuing Authority	SEIAA
(xi) Applicability of General Conditions	no
(xii) Applicability of Specific Conditions	no

Plot/Survey Khasra Nos.: 1331 , 1225 , 1475 , 888 , 1474 , 13391001 , 1448 , 978 , 1230 , 1333 , 1336 , 1191 , 1312 , 1345 , 1281 , 1313 , 1361 , 1469 , 1061 , 1233 , 1407 , 1431 , 1343 , 1373 , 1450 , 1162 , 1166 , 1418 , 1354 , 1290 , 1238 , 1452 , 1403 , 1439 , 1064 , 1252 , 1228 , 1399 , 1409 , 975 , 1058 , 967 , 1235 , 1464 , 1296 , 1359 , 1320 , 1380 , 1442 , 1245 , 1259 , 1342 , 1476 , 888 , 1464 , 1224 , 1474 , 1225 , 1475 , 1339979 , 1165 , 1197 , 1168 , 1287 , 1175 , 1274 , 1415 , 1000 , 1275 , 1285 , 1301 , 1192 , 1304 , 1278 , 1279 , 1284 , 1163 , 977 , 1286 , 1352 , 1178 , 1337 , 1292 , 1433 , 1355 , 1241 , 1307 , 1239 , 1402 , 972 , 974 , 1256 , 1400 , 1194 , 1250 , 1376 , 1180 , 980 , 1330 , 1445 , 1371 , 1443 ,

1240 , 1366 , 1408 , 1454 , 1266 , 1349 , 973 , 1065 , 1350 , 1247 , 1048 , 1327 , 1260 , 1269 , 1254 , 1347 , 1341 , 1390 , 1459 , 1460 , 1441 , 1468 , 1234 , 1002 , 1340 , 1283 , 1066 , 1328 , 1329 , 1249 , 968 , 1060 , 1357 , 982 , 1369 , 1348 , 1059 , 1255 , 1473 , 1440 , 1393 , 1353 , 1356 , 1246 , 1271 , 1405 , 1181 , 1253 , 1167 , 1412 , 1462 , 1401 , 966 , 1189 , 1047 , 1193 , 970 , 1318 , 1416 , 1398 , 1267 , 1300 , 1236 , 1263 , 1063 , 971 , 1389 , 1334 , 1303 , 1243 , 1273 , 1425 , 1335 , 1325 , 1338 , 1288 , 1302 , 1308 , 1364 , 1436 , 1305 , 1449 , 1310 , 1289 , 1321 , 1196 , 1231 , 1309 , 1419 , 1295 , 1297 , 1262 , 1270 , 1298 , 1411 , 1244 , 1226 , 1372 , 1280 , 1190 , 1351 , 1323 , 1429 , 1463 , 1316 , 1291 , 1045 , 1062 , 1417 , 1395 , 1276 , 1375 , 983 , 1299 , 1422 , 1367 , 1248 , 1368 , 1317 , 1404 , 1311 , 1394 , 1432 , 1294 , 1470 , 1257 , 1315 , 1176 , 1444 , 1365 , 1258 , 969 , 1360 , 999 , 976 , 981 , 1177 , 1044 , 1388 , 1467 , 1421 , 1465 , 1265 , 1272 , 1466 , 1322 , 1430 , 1451 , 1046 , 1420 , 1268 , 1232 , 1455 , 1437 , 1277 , 1424 , 1358 , 1363 , 1326 , 1406 , 1362 , 1423 , 1344 , 1447 , 1188 , 1458 , 1306 , 1413 , 1237 , 1332 , 1293 , 1319 , 1324 , 1264 , 1472 , 1410 , 1438 , 1346 , 1435 , 1164 , 1414 , 1446 , 1229 , 1370 , 1453 , 1471 , 1428 , 1251 , 1456 , 1461 , 1314 , 1374 , 1242 , 1427 , 1434 , 1396 , 1397 , 1457 , 1261 , 1426 , 1227 , , 2(P) 3(P) 16(P) 29(P) 165(P) 167(P)

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 19/08/2025. 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 19/08/2025, 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. Anuj 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.

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Annexure 1

Standard Terms of Reference for (Mining of minerals)

1.

S. No	Terms of Reference
1.1	An EIA-EMP Report shall be prepared for peak capacity (.....MTPA)operation 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 peak capacity operation 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 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	If the washery is located within the mine lease or near to the mine lease its location should be cited separately also, providing pillar cordinates and site layout plan. Insuch cases cumulative impact of mine operation with washery to be assessd and EMP measure to be drawn to the worst scenario
1.4	Plan of mechanized transportation of coal to coal washery also for rejects and washed coal to be drawn
1.5	Propoer KML file with pin drop and coordinate of mine at 500-1000 m interval be provided

Additional Terms of Reference

N/A

Annexure 2

Details of Products & By-products

Name of the product /By-product	Product / By-product	Existing	Proposed	Total	Unit	Mode of Transport / Transmission
Coal	Coal	0	0.7	0.7	MTPA	Combination of two or three modes



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/chr-seiaajhr@gov.in

website: www.jseiaa.in

Letter No : EC/SEIAA/2025-26/3885/2025/

Ranchi, Date :

To: Shri Raj Kumar
GM/HOD (Env.),
M/s Central Coalfields Limited (CCL),
Darbhanga House, Kutchery Road, P.O. : Ranchi,
District : Ranchi, Jharkhand : 834001.

Sub: Prescribing of ToR to “Churi – Benti Underground Mine of North Karanpura Area (0.70 MTPA) of M/s Central Coalfields Limited at Village : Churi, Benti, Tehsil : Khalari & Tandwa, District : Ranchi & Chatra, Jharkhand (415 Ha)” (Proposal No. : SIA/JH/CMIN/519883/2025).

Ref: Your application No. : PO/CHURI/PD/2025-26/963, dated - 17. 07.2025.

Sir,

It is in reference to the project “Churi – Benti Underground Mine of North Karanpura Area (0.70 MTPA) of M/s Central Coalfields Limited at Village : Churi, Benti, Tehsil : Khalari & Tandwa, District : Ranchi & Chatra, Jharkhand (415 Ha)” submitted by you for seeking Terms of Reference (ToR).

This is an expansion project which has been taken for appraisal on 23.07.2025.

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

Application for Terms of Reference (ToR) as per EIA Notification, 2006.

Fresh ToR for underground Coal Mining: 0.70 MTPA in an area of 415 Ha.

Churi Benti UG Mine is an brownfield underground coal mining project situated in North Karanpura Area of M/s Central Coalfields Limited is situated in the North Karanpura Coalfield of Jharkhand in Chatra and Ranchi district. The said mine is operational prior to the nationalization of Coal Mines. The Environment Clearance of Churi Benti UG (Nominal Capacity: 0.81 MTPA and Peak Capacity: 0.93 MTPA , Area: 244.60 Ha) was granted on 25.01.2012. This project falls within revenue Village: Benti, Anchal: Tandwa, Dist.: Chatra and Village: Churi. Anchal: Khalari, Dist.: Ranchi in Jharkhand.

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312.76 Ha of forest land vide dated 12.10.2010). Balance 92.65 Ha of forest land — comprising 65.84 Ha in Chatra Forest Division and 26.81 Ha in Ranchi Forest Division — is currently under consideration for Forest Clearance as part of the ongoing proposal No. FP/JH/MIN/23021/2016. The details of Forest Land is submitted below:

Particulars	Total Area in Ha	Released forest Land (HA)	Application Submitted for FC (HA)	
			Chatra South	Ranchi
Forest Division Involved		Ranchi		
Notified Forest (a)	261.23	208.81	48.59	3.83
GMJJ / Revenue Forest (b)	40.23	0	17.25	22.98
Forest Land including GMJJ/Revenue (A= a + b)	301.46	208.81	65.84	26.81
Non-Forest (B)	113.54	0	110.43	3.11
Total Land (A+B)	415	208.81	176.27	29.92

Working Details:

1	Mining Method	Benti Part: Development and Depillaring of combined section of UTLB & LTLB using Standard Height Continuous Miner Churi Part: Depillaring of already developed pillar of Lower Bachra seam by standard height continuous miner.
2	Project Area and capacity	415 Ha. and 0.7 MTPA
3	Acquisition Details	Acquired under Nationalization Act vide SO No.4774 dtd. 25.09.1985. Notification vide SO No.761 dtd. 17.02.1982.
4	No of Seams considered	Lower Bachra (Bottom Section)
5	Details of Forest land	301.46 Ha.
6	Average Grade	G-7
7	Life	08 Years
8	Extractable Mineable Reserve	4.9 Mte
9	Depth of Working	66.90 m to 105.88 m
10	Coal Linkage	Tipping trucks from mine to Dakra railway Siding, which is 6 km away from the proposed project

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Proposed Calendar Program:

YEAR	Coal (MnTe)
Y1	0.5
Y2	0.6
Y3	0.6
Y4	0.6
Y5	0.6
Y6	0.6
Y7	0.7
Y8	0.7
Total	4.9

PLOT DETAILS:

Plot / Survey / Khasra No of Benti Village

S.no	Khata	Plot No.	Plot area in Acre	Area falling under ChuriBenti UG				
				Forest Land		Tenancy	GM Land	Total
				Notified	GM (JJ)			
1	98	888	41.25	0.50	7.40			7.90
2	78	966	0.56			0.49		0.49
3	98	967	0.85				0.85	0.85
4	21	968	0.35			0.35		0.35
5	79	969	1.12			1.12		1.12
6	79	970	0.51			0.51		0.51
7	79	971	0.56			0.56		0.56
8	98	972	0.09			0.09		0.09
9	79	973	0.21			0.21		0.21
10	78	974	0.10			0.10		0.10
11	99	975	0.56				0.56	0.56
12	51	976	1.14			1.14		1.14
13	72	977	0.04			0.04		0.04
14	98	978	0.02				0.02	0.02
15	21	979	0.01			0.01		0.01
16	84	980	1.09			0.12		0.12
17	80	981	1.32			1.14		1.14
18	78	982	0.85			0.37		0.37
19	43	983	0.90			0.90		0.90

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S.no	Khata	Plot No.	Plot area in Acre	Area falling under ChuriBenti UG				
				Forest Land		Tenancy	GM Land	Total
				Notified	GM (JJ)			
20	78	999	1.32			1.13		1.13
21	78	1000	0.02			0.02		0.02
22	98	1001	0.01				0.01	0.01
23	51	1002	0.63			0.30		0.30
24	57	1044	1.16			1.16		1.16
25	6	1045	1.61			0.86		0.86
26	12	1046	1.38			1.37		1.37
27	6	1047	0.63			0.50		0.50
28	79	1048	0.99			0.23		0.23
29	98	1058	1.40				0.74	0.74
30	33	1059	1.41			0.39		0.39
31	26	1060	0.35			0.35		0.35
32	98	1061	0.09				0.09	0.09
33	71	1062	0.86			0.86		0.86
34	70	1063	0.56			0.56		0.56
35	98	1064	1.81				0.34	0.34
36	37	1065	0.92			0.22		0.22
37	37	1066	0.33			0.33		0.33
38	99	1162	0.49				0.12	0.12
39	33	1163	0.04			0.04		0.04
40	33	1164	2.06			1.98		1.98
41	33	1165	0.01			0.01		0.01
42	98	1166	0.13				0.13	0.13
43	70	1167	0.51			0.47		0.47
44	85	1168	0.01			0.01		0.01
45	37	1175	0.75			0.02		0.02
46	85	1176	1.05			1.05		1.05
47	32	1177	1.16			1.16		1.16
48	81	1178	1.84			0.06		0.06
49	69	1180	0.57			0.12		0.12
50	81	1181	0.46			0.44		0.44
51	93	1188	1.90			1.65		1.65
52	93	1189	0.81			0.49		0.49
53	43	1190	0.81			0.81		0.81
54	98	1191	0.04				0.04	0.04
55	57	1192	1.40			0.03		0.03

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S.no	Khata	Plot No.	Plot area in Acre	Area falling under ChuriBenti UG				
				Forest Land		Tenancy	GM Land	Total
				Notified	GM (JJ)			
56	48	1193	0.75			0.51		0.51
57	86	1194	1.04			0.11		0.11
58	98	1196	3.34			0.70		0.70
59	53	1197	1.90			0.01		0.01
60	98	1224	48.00	5.6				5.60
61	98	1225	40.00	16.7	4.00			20.70
62	48	1226	0.74			0.74		0.74
63	27	1227	6.50			6.38		6.38
64	98	1228	0.35				0.35	0.35
65	70	1229	2.11			2.11		2.11
66	98	1230	0.02				0.02	0.02
67	27	1231	0.71			0.71		0.71
68	79	1232	1.39			1.39		1.39
69	98	1233	0.09				0.09	0.09
70	27	1234	0.29			0.29		0.29
71	98	1235	1.20				1.2	1.20
72	27	1236	0.56			0.56		0.56
73	9	1237	1.74			1.74		1.74
74	98	1238	0.20				0.2	0.20
75	48	1239	0.09			0.09		0.09
76	6	1240	0.18			0.18		0.18
77	27	1241	0.09			0.09		0.09
78	27	1242	3.38			3.38		3.38
79	27	1243	0.58			0.58		0.58
80	27	1244	0.74			0.74		0.74
81	98	1245	2.15				2.15	2.15
82	9	1246	0.44			0.44		0.44
83	48	1247	0.23			0.23		0.23
84	69	1248	0.93			0.93		0.93
85	6	1249	0.35			0.35		0.35
86	48	1250	0.12			0.12		0.12
87	6	1251	2.48			2.48		2.48
88	98	1252	0.34				0.34	0.34
89	9	1253	0.47			0.47		0.47
90	9	1254	0.26			0.26		0.26
91	76	1255	1.43			0.40		0.40

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S.no	Khata	Plot No.	Plot area in Acre	Area falling under ChuriBenti UG				
				Forest Land		Tenancy	GM Land	Total
				Notified	GM (JJ)			
92	9	1256	0.30			0.11		0.11
93	9	1257	1.36			1.04		1.04
94	70	1258	1.26			1.08		1.08
95	98	1259	4.04				4.04	4.04
96	9	1260	0.25			0.25		0.25
97	72	1261	4.26			4.26		4.26
98	27	1262	0.73			0.73		0.73
99	27	1263	0.56			0.56		0.56
100	27	1264	1.82			1.82		1.82
101	93	1265	1.29			1.29		1.29
102	27	1266	0.21			0.21		0.21
103	6	1267	0.55			0.55		0.55
104	76	1268	1.38			1.38		1.38
105	86	1269	0.25			0.25		0.25
106	43	1270	0.73			0.73		0.73
107	76	1271	0.44			0.44		0.44
108	76	1272	1.30			1.30		1.30
109	86	1273	0.58			0.58		0.58
110	48	1274	0.02			0.02		0.02
111	86	1275	0.02			0.02		0.02
112	48	1276	0.88			0.88		0.88
113	5	1277	1.45			1.45		1.45
114	6	1278	0.04			0.04		0.04
115	6	1279	0.04			0.04		0.04
116	6	1280	0.76			0.76		0.76
117	99	1281	0.04				0.04	0.04
118	6	1283	0.33			0.33		0.33
119	9	1284	0.04			0.04		0.04
120	9	1285	0.03			0.03		0.03
121	76	1286	0.04			0.04		0.04
122	6	1287	0.02			0.02		0.02
123	6	1288	0.66			0.66		0.66
124	6	1289	0.70			0.70		0.70
125	99	1290	0.19				0.19	0.19
126	70	1291	0.85			0.85		0.85
127	70	1292	0.07			0.07		0.07

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S.no	Khata	Plot No.	Plot area in Acre	Area falling under ChuriBenti UG				
				Forest Land		Tenancy	GM Land	Total
				Notified	GM (JJ)			
128	70	1293	1.75			1.75		1.75
129	70	1294	0.99			0.99		0.99
130	33	1295	0.72			0.72		0.72
131	99	1296	1.43				1.43	1.43
132	9	1297	0.73			0.73		0.73
133	9	1298	0.74			0.74		0.74
134	9	1299	0.91			0.91		0.91
135	9	1300	0.55			0.55		0.55
136	9	1301	0.03			0.03		0.03
137	9	1302	0.66			0.66		0.66
138	9	1303	0.58			0.58		0.58
139	69	1304	0.03			0.03		0.03
140	6	1305	0.69			0.69		0.69
141	27	1306	1.71			1.71		1.71
142	27	1307	0.09			0.09		0.09
143	69	1308	0.66			0.66		0.66
144	33	1309	0.71			0.71		0.71
145	48	1310	0.69			0.69		0.69
146	76	1311	0.96			0.96		0.96
147	98	1312	0.04				0.04	0.04
148	98	1313	0.05				0.05	0.05
149	5	1314	2.82			2.82		2.82
150	85	1315	1.04			1.04		1.04
151	27	1316	0.85			0.85		0.85
152	76	1317	0.94			0.94		0.94
153	9	1318	0.52			0.52		0.52
154	72	1319	1.78			1.78		1.78
155	99	1320	1.76				1.76	1.76
156	27	1321	0.70			0.70		0.70
157	76	1322	1.32			1.32		1.32
158	33	1323	0.82			0.82		0.82
159	76	1324	1.81			1.81		1.81
160	27	1325	0.62			0.62		0.62
161	69	1326	1.50			1.50		1.50
162	76	1327	0.24			0.24		0.24
163	69	1328	0.33			0.33		0.33

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S.no	Khata	Plot No.	Plot area in Acre	Area falling under ChuriBenti UG				
				Forest Land		Tenancy	GM Land	Total
				Notified	GM (JJ)			
164	69	1329	0.33			0.33		0.33
165	27	1330	0.14			0.14		0.14
166	98	1331	2.10		2.10			2.10
167	27	1332	1.75			1.75		1.75
168	98	1333	0.02				0.02	0.02
169	6	1334	0.58			0.58		0.58
170	67	1335	0.61			0.61		0.61
171	98	1336	0.03				0.03	0.03
172	67	1337	0.07			0.07		0.07
173	27	1338	0.63			0.63		0.63
174	98	1339	57.00	45.5	11.50			57.00
175	9	1340	0.32			0.32		0.32
176	9	1341	0.28			0.28		0.28
177	99	1342	7.25				7.25	7.25
178	98	1343	0.11				0.11	0.11
179	14	1344	1.55			1.55		1.55
180	98	1345	0.04				0.04	0.04
181	14	1346	1.94			1.94		1.94
182	98	1347	0.26			0.26		0.26
183	9	1348	0.39			0.39		0.39
184	76	1349	0.21			0.21		0.21
185	9	1350	0.23			0.23		0.23
186	9	1351	0.82			0.82		0.82
187	9	1352	0.05			0.05		0.05
188	86	1353	0.42			0.42		0.42
189	98	1354	0.15				0.15	0.15
190	70	1355	0.08			0.08		0.08
191	9	1356	0.43			0.43		0.43
192	76	1357	0.35			0.35		0.35
193	6	1358	1.48			1.48		1.48
194	98	1359	1.59				1.59	1.59
195	14	1360	1.13			1.13		1.13
196	98	1361	0.05				0.05	0.05
197	41	1362	1.52			1.52		1.52
198	41	1363	1.50			1.50		1.50
199	6	1364	0.68			0.68		0.68

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S.no	Khata	Plot No.	Plot area in Acre	Area falling under ChuriBenti UG				
				Forest Land		Tenancy	GM Land	Total
				Notified	GM (JJ)			
200	33	1365	1.08			1.08		1.08
201	41	1366	0.18			0.18		0.18
202	14	1367	0.92			0.92		0.92
203	41	1368	0.94			0.94		0.94
204	79	1369	0.37			0.37		0.37
205	68	1370	2.12			2.12		2.12
206	79	1371	0.17			0.17		0.17
207	57	1372	0.74			0.74		0.74
208	98	1373	0.12				0.12	0.12
209	63	1374	2.90			2.90		2.90
210	57	1375	0.88			0.88		0.88
211	60	1376	0.68			0.12		0.12
212	98	1380	2.44				1.77	1.77
213	79	1388	1.52			1.18		1.18
214	79	1389	0.57			0.57		0.57
215	43	1390	0.61			0.28		0.28
216	94	1393	0.53			0.41		0.41
217	94	1394	1.01			0.97		0.97
218	23	1395	1.58			0.88		0.88
219	53	1396	4.08			4.08		4.08
220	53	1397	4.08			4.08		4.08
221	77	1398	0.52			0.52		0.52
222	98	1399	0.55				0.49	0.49
223	19	1400	0.29			0.11		0.11
224	56	1401	0.49			0.49		0.49
225	79	1402	0.09			0.09		0.09
226	98	1403	0.28				0.28	0.28
227	23	1404	0.96			0.96		0.96
228	78	1405	0.44			0.44		0.44
229	4	1406	1.52			1.52		1.52
230	98	1407	0.09				0.09	0.09
231	6	1408	0.19			0.19		0.19
232	98	1409	0.55				0.55	0.55
233	14	1410	1.86			1.86		1.86
234	14	1411	0.74			0.74		0.74
235	9	1412	0.48			0.48		0.48

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S.no	Khata	Plot No.	Plot area in Acre	Area falling under ChuriBenti UG				
				Forest Land		Tenancy	GM Land	Total
				Notified	GM (JJ)			
236	4	1413	1.72			1.72		1.72
237	6	1414	2.05			2.05		2.05
238	67	1415	0.02			0.02		0.02
239	70	1416	0.52			0.52		0.52
240	76	1417	0.86			0.86		0.86
241	98	1418	0.13				0.13	0.13
242	9	1419	0.72			0.72		0.72
243	41	1420	1.38			1.38		1.38
244	94	1421	1.22			1.22		1.22
245	43	1422	0.91			0.91		0.91
246	21	1423	1.54			1.54		1.54
247	94	1424	1.46			1.46		1.46
248	29	1425	0.60			0.60		0.60
249	40	1426	5.68			5.68		5.68
250	76	1427	3.74			3.74		3.74
251	79	1428	2.29			2.29		2.29
252	40	1429	0.83			0.83		0.83
253	79	1430	1.36			1.36		1.36
254	98	1431	0.10				0.1	0.10
255	78	1432	0.98			0.98		0.98
256	51	1433	0.08			0.08		0.08
257	79	1434	3.86			3.86		3.86
258	40	1435	1.96			1.96		1.96
259	21	1436	0.68			0.68		0.68
260	79	1437	1.44			1.44		1.44
261	80	1438	1.90			1.90		1.90
262	98	1439	0.32				0.32	0.32
263	80	1440	0.40			0.40		0.40
264	21	1441	0.29			0.29		0.29
265	98	1442	2.08				2.08	2.08
266	79	1443	0.17			0.17		0.17
267	21	1444	1.08			1.08		1.08
268	79	1445	0.16			0.16		0.16
269	40	1446	2.10			2.10		2.10
270	70	1447	1.57			1.57		1.57
271	98	1448	0.01				0.01	0.01

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S.no	Khata	Plot No.	Plot area in Acre	Area falling under ChuriBenti UG				
				Forest Land		Tenancy	GM Land	Total
				Notified	GM (JJ)			
272	9	1449	0.69			0.69		0.69
273	98	1450	0.12				0.12	0.12
274	9	1451	1.37			1.37		1.37
275	98	1452	0.23				0.23	0.23
276	98	1453	2.13			2.13		2.13
277	6	1454	0.20			0.20		0.20
278	6	1455	1.40			1.40		1.40
279	76	1456	2.58			2.58		2.58
280	39	1457	4.17			4.17		4.17
281	14	1458	1.66			1.66		1.66
282	14	1459	0.29			0.29		0.29
283	14	1460	0.29			0.29		0.29
284	14	1461	2.72			2.72		2.72
285	21	1462	0.49			0.49		0.49
286	79	1463	0.83			0.83		0.83
287	98	1464	2.52	1.25			1.27	2.52
288	9	1465	1.24			1.24		1.24
289	9	1466	1.31			1.31		1.31
290	9	1467	1.19			1.19		1.19
291	21	1468	0.29			0.29		0.29
292	98	1469	0.06				0.06	0.06
293	79	1470	1.02			1.02		1.02
294	76	1471	2.28			2.28		2.28
295	40	1472	1.82			1.82		1.82
296	79	1473	0.40			0.40		0.4
297	98	1474	60.00	16	10.75			26.75
298	98	1475	48.50	34.52	6.90			41.42
299	98	1476	24.00				20.5	20.5
Total Area (in Acres)				120.07	42.65	220.74	52.16	435.62
Total Area (in Ha)				48.59	17.25	89.33	21.10	176.27

Plot / Survey / Khasra No of Churi Village:

Khata	Plot No.	Plot area in Acre	Forest Land		Tenancy	GM land	Total
			Notified	GM (JJ)			
67	2(P)	15.00	0	0	0	6.06	6.06

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67	3(P)	342.00	301.47	0.44	0	0	301.91
74	16(P)	4.17	0	0	0	0.05	0.05
67	29(P)	161.00	19.62	0.0	0	0	19.62
67	165(P)		0	0	0	1.6	1.6
67	167(P)	643.5	204.34	56.34	0	0	260.68
Total (Acres)			525.43	56.78	0	7.71	589.92
Total (Ha)			212.63	22.98	0.00	3.12	238.73

The plot-wise details of forest land along with its diversion status is submitted below:

1) Forest Area falling in Churi Village of Block: Khalari, District: Ranchi

Khata	Plot No.	Total Plot area in Acre	Forest Land in present proposal		Total (Acres)	Status of Diversion
			Notified	GM (JJ)		
67	3(P)	342.00	301.47	0.44	301.91	<ul style="list-style-type: none"> 301.47 Acres Notified Forest part of Stage-II FC of 312.76 Ha (Letter No F-89-2008/FC Dated: 12.10.2010) 0.44 Acres GMJJ part of In-progress application of 281.17 Ha (FP/JH/MIN/ 23021/ 2016-Churi-Benti UGP)
67	29(P)	161.00	19.62	0.0	19.62	<ul style="list-style-type: none"> 19.62 Acres Notified Forest part of Stage-II FC of 312.76 Ha (Letter No F-89-2008/FC Dated: 12.10.2010)
67	167(P)	643.5	204.34	56.34	260.68	<ul style="list-style-type: none"> 194.86 Acres Notified Forest part of Stage-II FC of 312.76 Ha (Letter No F-89-2008/FC Dated: 12.10.2010) 56.34 Acres GMJJ and 9.46 acres Notified Forest part of In-progress application of 281.17 Ha (FP/JH/MIN/ 23021/ 2016-Churi-Benti UGP)
Total (Acres)			525.43	56.78	582.21	
Total (Ha)			212.64	22.98	235.62	

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2) Area of project in Benti Village, Block: Tandwa, District: Chatra

Khata	Plot No.	Total Plot area in Acre	Forest Land in present proposal		Total (Acres)	Status of Diversion
			Notified	GM (JJ)		
98	888	41.25	0.5	7.40	7.90	<ul style="list-style-type: none"> 42.65 Acres GMJJ and 120.07 Acres Notified Forest part of In-progress application of 281.17 Ha (FP/JH/MIN/ 23021/ 2016-Churi-Benti UGP)
98	1224	48.00	5.6	0.0	5.6	
98	1225	40	16.7	4.00	20.7	
98	1331	2.10	0	2.10	2.10	
98	1339	57.00	45.5	11.5	57	
98	1464	2.52	1.25	0	1.25	
98	1474	60	16	10.75	26.75	
98	1475	48.5	34.52	6.9	41.42	
Total (Acres)			120.07	42.65	162.72	
Total (Ha)			48.59	17.25	65.84	

Pre-Mining Land Use:

Land Type	Sub Type	Area in Ha
Tenancy	Agriculture	66.45
	Township/settlement	11.42
	Road	2.36
Govt Non Forest	Township/settlement	0.30
	Barren	5.07
	Water Bodies	17.15
	Road	0.79
	Community/Other Use	10
Forest	Protected / Notified	261.23
	GMJJ / Revenue Forest	40.23
Total (in Ha)		415

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Land Use During Mining:

SN	Land Use	Area in Ha
1	Area Under UG Working	314.09
2	Industrial Infrastructure	10.26
3	Safety Zone	5.30
4	Green Belt	68.20
5	Water Body/Stream	17.15
	Total	415

Land Use Post Mining :

SN	Land Use	Area in Ha	Post Mining Land Use			
			Agriculture	Waterbody	Plantation/ Green Cover	Public/Company Use
1	Area Under UG Working	314.09	82.70	-	301.02	3.87
2	Industrial Infrastructure	10.26	-	-	-	10.26
3	Safety Zone	5.30	-	-	5.30	-
4	Green Belt	68.20	-	-	68.20	-
5	Water Body/Stream	17.15	-	17.15	-	-
	Total	415	82.70	17.15	374.52	14.13

As per the present proposal, the total Plantation/Green Cover is proposed to be 374.52 Ha (~90% of the total area of 415 Ha), which marks an improvement over the existing project, where it was approximately 79%.

Compliance status of Public Hearing Dated: 28.01.2010 held for existing EC of Churi-Benti UG:

The Public Hearing for Churi-Benti Underground Coal Mine was conducted on 28.01.2010 as part of the environmental clearance process in accordance with the provisions of the EIA Notification, 2006. The public hearing was organized by the Jharkhand State Pollution Control Board (JSPCB) in coordination with the District Administration.



Sl. No.	Major Issue Raised	Compliance/ Action taken till date	Additional Measures Proposed & Status
1	Plantation	<ul style="list-style-type: none"> Gap Plantation in project area has been done through state forest department at a cost of Rs. 181 Lakh in FY 2017-18. Additional 5 ha plantation has been carried out in 2015-16 at a cost of about Rs. 13.38 Lakh. 	<ul style="list-style-type: none"> Additional 4,000 fruit bearing saplings is proposed for distribution in FY 25-26.
2	Employment	<ul style="list-style-type: none"> 12 Employment has been provided as per R&R Policy 2012 in Churi Village. 	<ul style="list-style-type: none"> R&R has been completed.
3	Rain Water harvesting	<ul style="list-style-type: none"> 03 (Three) nos. of rainwater harvesting structures has been constructed at Project office, GM Office and Guest House at a cost of Rs. 10 Lakh 	Completed.
4	Health/ Medical	<ul style="list-style-type: none"> 10 Medicines and health camps are being organized each year at a cost of Rs. 5 Lakhs/year. Central hospital is also operational in Area, having all facilities. 	<ul style="list-style-type: none"> Regular Health camps under CSR is proposed
5	Road & Air pollution	<ul style="list-style-type: none"> PCC pavement of Coal transport road was done in 2015 with total expenditure of about Rs.495.87 Lakh A Truck mounted fog canon has been operationalized at coal stock at a cost of Rs. 60 Lakh In addition, a water tanker of 28 KL is deployed in the project at the Coal transport road for Dust suppression. Fixed sprinklers have been installed at Dakra Siding along with Wind Breaking System 	<ul style="list-style-type: none"> Regular Env. Monitoring is being done through 3rd Party (CMPDI)
6	Drinking Water	<ul style="list-style-type: none"> Deep boring fitted with RO has been established in Churi village for the local villagers at a cost of Rs. 10 Lakh. 	<ul style="list-style-type: none"> Construction of well at Churi South Panchayat at a cost of Rs. 0.16 Lakh and provision of solar powered deep boring at a cost of Rs. 14.50 Lakh

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Year-wise CSR Expenditure for Churi-Benti UG Project:

A total of ₹169.97 lakh has been spent on CSR activities from 2013–14 to 2024–25 for Churi-Benti UG.

Provision of Final Mine Closure:

In line with already approved Mine Closure Plan, till date, 12.3392 Crore has already been deposited in the escrow account. Total Mine Closure Corpus to be deposited in Escrow A/c is estimated as Rs. 14.8396 Crore. Accordingly, provision has been made to deposit Rs. 2.9846 Crore during the mine life as per the proposed Mining plan & Mine Closure Plan i.e. 8 years

Energy Conservation:

1. For decreasing the maximum demand of the project power factor of 0.98 will be maintained using automatic power factor correction Capacitor banks.
2. Energy efficient LED luminaires has been proposed for all types of illuminations.
3. Energy efficient motors have been proposed as energy conservation measures.
4. Periodical maintenance of equipment's, energy audits, optimization of distribution networks Promoting use of renewables and energy efficient appliances in Project and nearby villages.

Subsidence Management:

Subsidence prediction study has been carried out and management plan has been prepared. Precautions against Subsidence Due to Depillaring by Caving:

1. Damodar River passes through the central portion of the proposed mining area, which covers a total of 415 Ha. In compliance with Regulation 149 and 150 of the Coal Mines Regulations, 2017, no underground workings shall be undertaken within a horizontal distance of 60 metres from the river without obtaining prior written permission from the Director General of Mines Safety (DGMS). Accordingly, sufficient barrier (protective parting) shall be maintained from the High Flood Level (HFL) of the Damodar River, measured with reference to a 32-degree angle of draw, prior to the commencement of depillaring operations.
2. Depillaring shall not be carried out in any pillars located beneath the river, within the HFL zone, or within the defined protective barrier area. All exploratory and operational boreholes will be properly sealed and plugged, with inspections carried out especially during the monsoon season to prevent any sudden inrush of water. Additionally, filling of low-lying areas may be required during the depillaring of panels within the Churi-Benti UG mining area to maintain surface stability and mitigate water accumulation risks.
3. As subsidence progresses, surface cracks should be filled up effectively with earth and the ground should be given adequate slope towards the water bodies for natural drainage, so that surface cracks may not provide the way for surface water to percolate below ground.



4. It is suggested that mine management should form a team that will be responsible for the proper and regular filling of surface cracks developed due to subsidence. The team will also maintain record of the development and filling of surface cracks. Mine management at the site should arrange adequate supply of filling materials. The crack filling material should be non-combustible in nature.
5. Surface drains should be made outside the subsidence area to prevent the surface water of adjoining area to come into active subsidence area.

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The land for the project is acquired under Nationalization act, Notification vide SO No.4774, Dated: 25.09.1985, Notification vide SO No.761 Dated: 17.02.1982.
2	CO	:	<ol style="list-style-type: none"> i. The CO, Khalari (Ranchi) vide letter no. 36, dated 17.02.2025 has mentioned the plot no. of the project is recorded as "Jungle- Jhari" in R.S. Khatiyani & Register II. ii. The CO, Tandwa (Chatra) vide letter no. 791, dated 18.06.2025 has mentioned the plot no. of the project is recorded as "Jungle- Jhari" in R.S. Khatiyani & Register II.
3	DFO Wild Life	:	<ol style="list-style-type: none"> i. DFO, Wildlife Division, Hazaribag vide letter no. 663, dated 19.04.2025 certified that the proposed project site is outside Eco Sensitive Zone of Hazaribag Wildlife Sanctuary. ii. DFO, Wildlife Division, Ranchi vide letter no. 301, dated 20.05.2025 certified that the proposed project site is outside Eco Sensitive Zone of Palkot Wildlife Sanctuary.
4	DFO Territorial	:	<ol style="list-style-type: none"> i. Divisional Forest Officer, Ranchi Forest Division vide letter no. 1047, dated 16.04.2025 certified that the distance of reserved / protected forest is less than 250 meters from proposed project site. ii. Divisional Forest Officer, Chatra South Forest Division vide letter no. 800, dated 08.04.2025 certified that the distance of reserved / protected forest is Zero (0) meters from proposed project site.
5	Previous Environmental Clearance (EC)	:	Previous EC granted by MoEF, Govt. of India vide letter no. J-11015/1005/2007-IA.II(M), dated 25.01.2012.

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6	Mine Plan Approval	:	Ref. no. C.S./B.M/545/2025/18, dated 31.01.2025.
7	Forest Clearance	:	Stage-II issued by MoEF, Govt. of India letter no. 8-49/2008-FC, dated 12.10.2010.
8	Consent to Establish (CTE)	:	CTE issued by JSPCB vide Ref. no. PC/NOC/RNC/516/12/G-914, dated 20.03.2014.
9	Consent to Operate (CTO)	:	CTO issued by JSPCB vide Ref. no. JSPCB/HO/RNC/CTO-13750916 /2023/3, dated 01.01.2023.
10	CGWA	:	No Objection Certificate (NOC) for Ground Water Abstraction issued by CGWA vide NOC no. CGWA/NOC/MIN/REN/1/2025 /11346, dated 03.04.2025 valid up to 07.12.2025.

SEAC, Jharkhand has recommended the ToRs in its 125th meeting held on 23rd, 24th, 25th, 26th, 27th and 28th July, 2025 for undertaking detailed EIA / EMP study and SEIAA, Jharkhand has granted the ToRs in its 125th meeting held on 19th & 20th August, 2025. The SEAC has recommended following conditions:

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

Specific Conditions:

- i. 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.

[GREEN FIELD & BROWN FIELD]

- i. An EIA-EMP Report shall be prepared for.....MTPA peak rated capacity in a mining lease (ML) area of ha based on the generic structure specified in Appendix-III of the EIA Notification, 2006.
- ii. The cover page of the EIA report shall consists of project title with location, applicable schedule of the EIA Notification, 2006, ToR letter No. with date, study period along with EIA consultant & laboratory details with reference of QCI/NABET/NABL accreditation certificate.

Introduction about the project:

- i. Details regarding project capacity (peak rated capacity in MTPA) and mining lease area (ha), details regarding project proponent and project location (including coalfield

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- / coal block & geographical location). significance/need of the project and coal linkage.
- ii. Details of mine plan and mine closure plan approval from Competent Authority should be furnished for green field and expansion projects. Reference of the Vesting Order should also be provided.
 - iii. Details of the chronology of past EC regarding the project and its implementation status (in case of expansion proposals) shall be provided

Project Details and Description

- i. Details w.r.t location of the project - Coordinates w.r.t the mining lease boundary (including kml in polygon format) to be provided and submitted as location plan. A toposheet depicting the core zone (mine infrastructural area) and buffer zone (10 kms radius from periphery of the core zone) on 1:25,000 scale. (including all eco-sensitive areas and environmentally sensitive places)
- ii. Details of sensitive environmental receptors (habitation / school / river or water body / forest / areas of archaeological significance, etc.) within 10 kms from the periphery of the core zone shall be provided. Details w.r.t need for diversion of water body / road / railway / transmission lines to be indicated.
- iii. Details of mineral reserves, geological status of the mining lease area and the seams to be worked, ultimate working depth, gassiness of seams to be worked and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved peak rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and section should be included.
- iv. 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 on air quality, noise & vibration on account of mineral transportation, coal handling & storage/stockyard, etc. should be provided. Details w.r.t manpower engaged in the project shall also be included.
- v. Submission of sample test analysis of characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, sulphur and heavy metals including levels of Hg, As, Pb and Cr.
- vi. Details w.r.t utilities required for the project including power, fuel, water supply, including source of the utilities.
- vii. Details w.r.t infrastructural facilities planned as a part of the project including incline, ventilation shafts, CHP, ETP, Stockyard, township/colony, magazine, etc.
- viii. Project proponent should clearly show the transport route & details of transportation route (*viz.* Type of road, width of road, Pavement Condition Index, V/C of road etc.) of the mineral and protection and mitigative measures to be adopted while transporting the mineral. The coal or lignite evacuation facility should be through conveyor or railway or any environmentally friendly transport other than road transport from mine sites to the railway siding for projects with PRC more than 2



MTPA, as per new Guidelines for preparation of Mining Plan and Mine Closure Plan from MoC dated 31.01.2025. Also, preference to be given to eliminate road transport by adopting environment friendly transport of coal evacuation and opt for mechanized loading for projects with peak rated capacity even upto 2 MTPA.

- ix. A detailed site plan of the mine showing the proposed break-up of the land for mining operations such as the mine entries / incline, UG seams and panels, 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-channeling of the water courses, etc., approach roads, *etc.* should be indicated.
- x. Project proponent shall submit the drone video & geo-tagged photographs of mine lease area to be mined, including infrastructural area and proposed transportation route.
- xi. It must be endeavored to locate the mine inclines and ventilation shafts at least 100 m from habitations. In case such 100 m buffer is not possible, justification for the same shall be provided. Project proponent should ensure that no forestland is diverted to the extent feasible for setting up of the mine infrastructure facilities.
- xii. Original land use (agricultural land/ forest land (*if applicable*) /grazing land/waste land/water bodies) of the area should be provided as per the tables given below. Impacts of project, if any on the land use, in particular, agricultural land/forestland/grazing land/water bodies falling within the mining lease area, acquired for mining operations should be analyzed. Extent of area under surface rights and mining rights should be specified. A map depicting the same shall also be submitted.

Pre-Mining Land use

Sl. No.	ML/Project Land-use	Area under Surface Rights only (ha)	Area under Mining Rights (ha)	Area under Both / All Rights (ha)
1.	Agricultural Land			
2.	Forest Land			
3.	Grazing Land			
4.	Settlements			
5.	Water bodies			
5.	Others(specify)			
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Break-up of Area under Surface Rights only

Sl. No.	Details	Area (ha) under Surface Rights only
1.	Buildings	
2.	Infrastructure	
3.	Roads	
4.	Water bodies	
5.	Others(specify)	
	Total	

Land Use during Mining Phase

Sl. No.	Details	Area under Surface Rights only (ha)			Area under Mining Rights [beneath surface] (ha)			Area under Both /All Rights (ha)		
		Forest Land	Non-forest land	Total	Forest Land	Non-forest land	Total	Forest Land	Non-forest land	Total
1	UG Extraction / Working area (beneath surface)									
2	Industrial Infrastructure (Mine entry / incline, stockyard / siding / magazine, etc.)									
3	Other infrastructure (office buildings, utilities, treatment plants, colony etc.)									
4	Roads									
5	Greenbelt									

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6	Water body									
7	Undisturbed/ vacant area / safety zone									
	TOTAL									

In case of expansion proposals, the above table must be provided for

- (1) Present land use as per existing EC and
- (2) Proposed land use in terms of expansion proposal

Land Use Status - Post Mining Phase

Sl. No.	Details	Plantation	Water Body	Public Infrastructure	Un-disturbed areas	Subsided Area	Total
1.	UG Extraction / Working area (beneath surface)						
2.	Industrial Infrastructure (Mine entry / incline,						
3.	stockyard / siding / magazine, etc.)						
4.	Other infrastructure (office buildings, utilities, treatment plants, colony etc.)						
5.	Roads						
6.	Green belt						
7.	Water body						
8.	Undisturbed / vacant area /						

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	safety zone						
9.	Total						

In case of expansion proposals, the above table must be provided for

- (1) Post mining land use as per existing EC and
- (2) Proposed post mining land use in terms of expansion proposal

xiii. A list of major industries within study area (10 km radius from the periphery of the core zone) with name, products manufactured and distance from core zone and the location of the industries shall be depicted in the study area map.

Baseline Data Generation

- i. A study area map of the core zone (mine infrastructure area) and 10 kms area (1:50,000 scale), from the periphery of core zone, clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nallahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries/mines and other polluting sources shall be prepared.
- ii. In case of ecologically sensitive areas such as ESZ/ESA/National Park/Wildlife Sanctuary/Biosphere Reserve/Tiger Reserve/Elephant Reserve/Tiger Corridor/ Elephant Corridor are found to be within 10 kms from the boundary of the mining lease, the nearest distance from such sites should be duly certified by Chief Wildlife Warden (CWW) and the same shall be included in the EIA/EMP report.
- iii. The environmental baseline data collection shall be of three months' period and can be for any season except monsoon season, as per the below table:

Attributes	Sampling, Frequency and Remarks
A. Air Environment	
Micro-Meteorological <ul style="list-style-type: none"> • Wind speed (Hourly) • Wind direction • Dry bulb temperature • Wet bulb temperature • Relative humidity • Rainfall • Solar radiation • Cloud cover 	Minimum 1 site in the core zone Hourly continuous data shall be recorded The sampling shall be as per: <ul style="list-style-type: none"> • IS 5182 Part 1-20 • Site specific primary data is essential • Secondary data from IMD, CPCB guidelines to be considered.

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	<p>Project proponent has to plot the wind rose diagram using the typical meteorological year (TMY) data for the period considered for the study.</p>
<p>Pollutants Core Zone: 4 parameters as per Coal Mines, GSR 742 (E) dated 25.09.2000 Buffer zone: 12 parameters as per NAAQS, 2009</p>	<p>Collection of one season (90 days) AAQ data (except in monsoon season) To be monitored at 10 locations (2 locations within the core zone and 8 locations in the buffer zone) Monitoring stations in the core zone as well as buffer zone should be based on predominant wind direction, habitations and terrain features. The direction and distance of monitoring stations with respect to project location should be clearly specified with geo-coordinates. The monitoring stations should cover upwind, downwind, cross wind directions, human settlements and sensitive areas. Sampling and report preparation should be as per:</p> <ul style="list-style-type: none"> • National Ambient Air Quality Standards, CPCB Notification and Standards for Coal Mines, GSR 742 (E) dated 25.09.2000. • Sampling as per CPCB guidelines • Min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report. • Summary of the air quality along with predicted values of air pollutants should be provided in the EIA Report. • NABL accredited laboratory
<p>B. Noise</p>	
<p>Noise levels</p>	<p>To be monitored at 6 locations (2 locations within the core zone and 4 locations in the</p>

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	<p>buffer zone) Noise levels at outer limits of the core zone during daytime and night time and noise levels within 1 to 3 kms from the core zone & coal transportation route especially at habitation should be monitored. The monitoring locations for sampling shall be selected as per the sources and magnitude of noise pollution. Sampling and report preparation as per:</p>
	<ul style="list-style-type: none"> • As per CPCB norms and Standards for Coal Mines, GSR 742 (E) dtd 25.09.2000. • NABL accredited laboratory <p>Summary of the noise level should be provided in the EIA Report.</p>
C. Water	
<p>For Surface Water</p> <ul style="list-style-type: none"> • Arsenic • BOD • Cadmium • Chlorides • Copper • Dissolved Oxygen • Fluoride • Hexavalent Chromium, • Iron • Lead • Nitrate • pH value • Phenolic compounds • Selenium • Sulphate • Total Dissolved Solids • Total Suspended Solids • Zinc <p>Any other relevant parameters</p>	<p>Upstream and downstream sampling of all the relevant surface water bodies (minimum 6 locations) in the core and buffer zone shall be carried out. Samples for water quality should be collected and analysed as per:</p> <ul style="list-style-type: none"> • Designated best use water quality criteria, CPCB • NABL accredited laboratory • Standard methodology for collection of surface water (BIS standards)
<p>For Ground Water Relevant parameters as per BIS: 10500 (latest edition)</p>	<p>Ground water monitoring data should be collected at minimum of 6 locations (from existing wells /tube wells) from the core</p>

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	<p>and buffer zone shall be included. Samples for water quality should be collected and analysed as per:</p> <ul style="list-style-type: none"> • NABL accredited laboratory • Standard methodology for collection of ground water (BIS standards) • Summary of surface and ground water quality should be provided in the EIA Report.
D. Soil Environment	
<p>Soil</p> <ul style="list-style-type: none"> • Texture • pH • Electrical conductivity • Cation exchange capacity 	<p>Sampling shall be done at various type of soils (agriculture/forest/barren etc.) within the core and buffer zone (across minimum 5 locations). Samples for soil should be collected and analysed as per:</p> <ul style="list-style-type: none"> • NABL accredited laboratory
<ul style="list-style-type: none"> • Sodium Absorption Ratio (SAR) • Water holding capacity • Permeability • Available NPK • Available Organic Carbon 	<ul style="list-style-type: none"> • Standard methodology for collection of soil samples • ICAR standards for available NPK to be followed.
E. Land Use	<p>Land use based on Digital Survey of entire study area (including core and buffer zone) using Satellite Remote Sensing survey (1:50000)</p>
F. Biological Environment	
<p>Flora (both aquatic* and terrestrial)</p> <ul style="list-style-type: none"> • Vegetation-species list. economic importance, forest produce, medicinal value • Importance value index (IVI) of trees • Diversity indices • Rare and endangered species <p>*Aquatic assessment requirement in case of proximity of ML area to river</p>	<p>Detailed description of flora and fauna (terrestrial and aquatic) existing in the core and buffer zone shall be given with special reference to rare, endemic and endangered species. Indicator species which indicate ecological and environment degradation should be identified and included to clearly state whether the proposed project would result into any adverse effect on any species. Secondary data to be collected from</p>

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/ perennial nallah.	Government offices, NGOs, published literature.
<p>Fauna (both aquatic* and terrestrial)</p> <ul style="list-style-type: none"> • Enumeration of zoo plankton and benthos • Fisheries • Diversity indices • Rare and endangered species • Avi fauna • Details of Sanctuaries / National Park / • Biosphere reserve Migratory routes/CRZ/ Marine Parks <p>*Aquatic assessment requirement in case of proximity of ML area to river / perennial nallah.</p>	
G. Socio-Economic	
<ul style="list-style-type: none"> • Demographic structure, traditional skills, sources of livelihood • Socio-economic profile of the people with in 2, 5 and 10 km from the core zone. 	<ul style="list-style-type: none"> • Measures for occupational health and safety of the manpower in the mine should be given.
<ul style="list-style-type: none"> • Human settlement, health status, sources of livelihood • Data relating to historically, culturally and ecologically important places in core as well as buffer areas • Information on notified tribal settlements, if any • Infrastructure resource base • Health status: Morbidity pattern • Education 	<ul style="list-style-type: none"> • Socio-economic survey shall be based on proportionate, stratified and random sampling method. • Primary data collection through questionnaire • Secondary data from census records, statistical hard books, topo sheets, health records and relevant official records available with Govt. Agencies

- iv. Map (1:50,000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided.
- v. A contour map showing the area drainage of the core zone and surrounding 10 kms radius should be depicted such as to clearly indicate the water courses and the location

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- where they ultimately join with major rivers / streams.
- vi. The data generated should be validated through secondary data sources / published literature (example - routine environmental monitoring or CAAQMS, CEQMS data (if available) for mines/projects in vicinity).
 - vii. Summary of the baseline environmental data and inference w.r.t cause of deviations in concentrations of environmental parameters.

Impact assessment and mitigation measures Air

- i. In case of expansion proposals, Cumulative Environmental Impact Assessment study of all the existing and proposed projects in the 10 kms radius of the core zone area shall be conducted and the same shall be included in the EIA/EMP report. Details of industrial units present in 10 kms radius of the core zone shall be earmarked in map and submitted.
- ii. The impact of construction (particularly if constructed in forest land) and associated mitigation measures must also be provided.
- iii. In case of proximity of mining infrastructure to habitation/water bodies, adequate safety measures should be provided as per the Coal Mining Regulations, 2017 and DGMS circulars issued from time to time and environmental protection measures like wind barriers, Vertical Greenery System (VGS), avenue/buffer plantation, etc.
- iv. Impacts of mineral handling & transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided, especially w.r.t impact on habitation in case of transportation through village roads. Impacts of generation of effluents from workshop, sewage, etc. & management plan for maintenance of 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.
- v. Air quality modelling should be carried out for prediction of impact of the project on air quality of the area. It should *inter alia* take into account the emissions from DG sets if any, impact of movement of vehicles for transportation of coal. The details of the model used and input parameters for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and habitations. The wind roses showing predominant wind direction may also be indicated on the map.
- vi. The number and efficiency of mobile/static water sprinkling system along the main mineral transportation road inside the mine, approach roads to the mine/stockyard/siding should be provided and details w.r.t frequency of their use/operation to ensure efficient mitigation in terms of air quality should be provided.
- vii. Impacts of CHP, if any on air and water quality should be given. A flow chart showing water balance along with the details of zero discharge should be provided.
- viii. Project proponent shall explore feasibility for transitioning towards adoption of EVs and eco-friendly mode of transport.

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Noise

- i. Measures for noise control in the work zone and surrounding areas should be provided. All the DG sets should have proper acoustic measures to reduce noise pollution.

Water

- i. Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime (both dynamic and static resources) within the core zone and 10 kms buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater in the buffer zone should be reflected. Necessary mitigation measures w.r.t quality of mine water, treatment, utilization and discharge of mine water must be provided.
- ii. Treatment facility should be based on mine water characteristics and domestic waste water characteristics.

Hydrogeology

- i. Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted.
- ii. Detailed water balance should be provided (breakup of water requirement as per different activities in the mining operations, including for sand stowing). 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 provided.
- iii. In case of need for river/nallah diversion, impact assessment and proper mitigation plan is required; diversion plan approved by competent authority is to be submitted.

Land

- i. Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the pre-mining status to the extent possible should be provided and submitted with detailed cost provisions.
- ii. The details regarding Progressive Mine Development and Conceptual Final Mine Closure Plan should also be provided and shown in plans/drawings.
- iii. The project proponent shall prepare comprehensive plantation plan including number of saplings to be planted, location of plantation, target for survival rate and budget all along the periphery of mine infrastructure. Plantation plan should be prepared in such a way that 80% of the plantation to be carried out in first 5 years and for the remaining years the proposal for gap filling should be provided. The seedling of height not less than 2 meters to be selected and accordingly cost of plantation needs to be decided. The plantation plan should cover areas other than core zone.
- iv. Project proponent is advised to submit an action plan towards implementation of the



'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than green belt development. The action in this regard shall be submitted concerned RO in six monthly report.

Flora & Fauna

- i. If the study area (core and buffer zone) has endangered flora and fauna, or if the area is occasionally visited or used as a habitat by Schedule-I species, or if the project falls within 10 kms of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report: and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.

Waste Management

- i. Quantification of solid and hazardous wastes, including corresponding impacts and management plan to be provided.
- ii. Project proponent shall submit the action plan to adhere to the Plastic Waste Management Rules 2016 and to adhere Ministry's OM dated 18/07/2022.

Additional studies

- i. Risk assessment and management as per the Coal Mining Regulations, 2017 and other applicable statutes must be summarized in the EIA/EMP report. Measures for addressing occupational health and safety risks of the personnel and manpower engaged in the mine should be submitted in line with work zone regulations. The risk assessment studies must be undertaken by qualified institutes engaged in mine planning projects and the detailed report may be attached as annexure to the EIA/EMP report. These studies may be aligned with DGMS norms.
- ii. Study on subsidence including modelling for prediction, mitigation/prevention of subsidence, continuous monitoring measures, and safety issues should be carried out from reputed institutes equipped for the same. The subsidence study should *interalia* include seismic characteristics of the location of the project site. Summary of the same along with the mitigation measures should be included in the EIA/EMP report and detailed report should be attached as Annexure.
- iii. Traffic assessment study to be done considering transportation of coal from the coal stockyard either upto siding or upto nearest public transport route/highway. Adequacy of existing roads, impact due to additional traffic and proposed management / mitigation measures to be provided.
- iv. In case of diversion of power line / transmission lines / railway line / roads – the impact assessment of such diversions and corresponding mitigation proposed in line







- with the permissions/NoC obtained from the competent Authority shall be provided.
- v. Assessment of carbon emission intensity of the project should be summarized in the EIA/EMP report including measures to reduce the same in line with Gol NDC commitments / SDGs should be provided. The detailed report may be attached as an annexure to the EIA/EMP report.
 - vi. Details w.r.t R&R plan should be summarized in the EIA/EMP report. 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 as annexure to the EIA/EMP report.
 - vii. In case the project is located either in Critically Polluted Area or in Severely Polluted Area, the proponent must submit additional action plan to address environmental safeguards as per OM dated 31st October, 2019 (Ref. F. No. 22-23/2018-IA.III (Pt)).
 - viii. Signed copy of complete Public Hearing Proceedings (forwarding letter to MoEF&CC by SPCB, notice issued in newspaper for PH, PH MoM, Attendance sheet, PH photographs, written representations received during public hearing and written communication submitted, notarized copy of English translation of PH proceeding including written representation and response submitted) to be enclosed as Annexures to the EIA/EMP report.
 - ix. Action plan duly addressing the issues raised during the Public Hearing and Consultation with physical and financial outlay as per Ministry's OM dated 30.09.2020 shall be included as per the table given below:

Proposed Activities under Public Hearing	Place of Implementation (Physical targets)	Year wise financial outlay in, Rs. Lakhs					
		Year - 1	Year - 2	Year - 3	Year - 4	Year - 5	Total

Environmental Management Plan

- i. Summary containing mitigation measures to be adopted for each environment component during development and operation phase of UG coal mining shall be submitted.
- ii. Details of the Environment Management Cell
- iii. Performance monitoring of pollution control devices and Effluent Treatment Plant shall be furnished.

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- iv. Cost of Environmental Management Plan (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
- v. Corporate Environment Policy:
 - 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.
- vi. In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.

Environmental Monitoring Plan

- i. Details w.r.t environmental monitoring plan in terms of air (including fugitive emissions). noise, water, soil to ensure effectiveness of mitigation measures deployed shall be provided
- ii. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.

Project Benefits

- i. Details regarding benefits of the project w.r.t improvements in physical and social infrastructure, employment potential and other tangible benefits to be provided.

Legal and statutory approvals and details w.r.t litigations

- i. Status of any litigations/ court cases filed/pending on the project should be provided in below format

S. No.	Name of the Court/Tribuna l	Name of the specific Court/	Case Category	Status of court case	Orders/Directions of the court, if any, and its relevance with the proposed
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- i. Copy of clearances/approvals such as Forestry Clearance, Mining Plan / Mine Closure Plan approval, NOC from CGWA, NOC from Flood and Irrigation Dept. (if req.), NBWL, NTCA, etc. wherever applicable.
- ii. Details on the Forestry Clearance (*if forest land is involved*) should be given as per the format given:

Total ML /Project Area (ha)	Total Forest Land (ha)	Status w.r.t FC received		Status w.r.t balance Forest Land	
		Date of FC	Extent Of Forest Land	Balance area For which FC is yet to be obtained	Status of appl. For diversion of forest land

- iii. In case of expansion proposals, Certified Compliance Report (CCR) from RO, MoEF&CC is required to be submitted.
- iv. Necessary coordination shall be made with concerned SPCB (who is responsible for Compliance of OM dated 14.01.2025) regarding streamlining the implementation of GSR 702 and GSR 703 dated 12.11.2024 through which projects requiring prior EC were exempted from requirement of CTE.
- v. In case of diversion of water body / road / railway lines / transmission line, approval for the same from competent authority must be submitted.

Summary and conclusion

- i. An executive summary of the report covering key findings of EIA/EMP study are to be provided.

Details regarding consultant and laboratories engaged

- i. It should be ensured that only NABET-accredited consultants shall be engaged for the preparation of EIA/EMP Reports. PP shall ensure that the accreditation of the consultant is valid during the collection of baseline data, preparation of EIA/EMP report and the appraisal process. The PP and consultant should submit an undertaking

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- the information and data provided in the EIA Report and submitted to the Ministry are factually correct and the PP and consultant are fully accountable for the same.
- ii. Project proponent shall submit the EIA/EMP report after the plagiarism check using authenticated plagiarism software.
 - iii. 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/2025-26/3885/2025/ 393

Dated: 21.08.2025

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