



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

To,

The Chief General Manager (C&J)
 COLLIERIES DIVISION STEEL AUTHORITY OF INDIA LIMITED
 Chasnalla Colliery, Collieries Division, SAIL-Chasnalla(Dhanbad) -828135

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/JH/CMIN/82988/2021 dated 18 Jan 2023. The particulars of the environmental clearance granted to the project are as below.

1. EC Identification No.	EC23B000JH124084
2. File No.	EC/SEIAA/2022-23/2733/2023
3. Project Type	New
4. Category	B1
5. Project/Activity including Schedule No.	N/A
6. Name of Project	
7. Name of Company/Organization	COLLIERIES DIVISION STEEL AUTHORITY OF INDIA LIMITED
8. Location of Project	Jharkhand
9. TOR Date	27 Apr 2021

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 19/06/2023

(e-signed)
 Ashok Kumar, IFS
 Member Secretary
 SEIAA - (Jharkhand)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.

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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

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Letter No : EC/SEIAA/2022-23/2733/2022/

Ranchi, Date :

**To: M/s Steel Authority of India Limited,
Md. Adnan (Chief General Manager (C&J),
At/P.O. : Chasnalla, P.S. : Patherdih,
Distt - Dhanbad, Jharkhand : 828135.**

Sub: Environmental Clearance for the project “Jitpur Under Ground Coal Mine of 0.6 / 0.7 MTPA (Normative / Peak) of M/s Steel Authority of India Limited – Collieries Division at Village : Noonudih & Jitpur, Block : Jharia, P.S. : Jorapokhar, District : Dhanbad, Jharkhand (163.69 Ha)”, (Proposal No. SIA/JH/CMIN/82988/2021) - regarding.

Ref: Your application no.- CGM/25-PC/203, dated – 13.01.2023.

Sir,

It is in reference to the project “Jitpur Under Ground Coal Mine of 0.6 / 0.7 MTPA (Normative / Peak) of M/s Steel Authority of India Limited – Collieries Division at Village : Noonudih & Jitpur, Block : Jharia, P.S. : Jorapokhar, District : Dhanbad, Jharkhand (163.69 Ha)” submitted by you for seeking prior Environmental Clearances (EC).

This is a violation project which has been taken for appraisal on 15.04.2023.

The project is a violation case since the project had come in to operation without obtaining prior Environmental Clearance. The project was considered by MoEF&CC, Govt. of India under the notification no. 804(E), dated 14.03.2017 and has approved the violation ToR vide letter no. IA-J-11015/66/2015-IA-II(M), dated 27.04.2021. The final EIA / EMP submitted by PP to SEIAA in the light of notification no. S.O. 1886 (E), dated 20th April, 2022 on 13.01.2023, which was forwarded to SEAC on 13.01.2023 for appraisal.

The matter has been taken for consideration & recommendation of EC for violation projects.

Project and Location Details:

Sl	Parameter	Details
1	Project Name	: Jitpur Under Ground Mine, Collieries Division, STEEL AUTHORITY OF INDIA LIMITED (Lease Area-163.69 ha)
2	Lessee:	: Collieries Division, Steel Authority of India Limited

[Signature]

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3	Lease Address	:	Chief General Manager (C&J) Collieries Division, SAIL-Chasnalla (Dhanbad), Jharkhand-828135 E-mail gmchasnalla@gmail.com
4	Lease Area	:	Ha: 163.69 ha Acres:404.31
5	Type of Land	:	Private & Govt. land. There is no forest land.
6	Project Cost	:	222.69 Crores
7	EMP Budget	:	Capital: 50.Lakh Recurring: 22. Lakh / year
8	CSR / CER Budget	:	Rs. 1 Crore
9	New or Expansion	:	Expansion of production capacity 0.6/0.7 Million Tons (Normative/Peak)
10	Mineable Reserves	:	21.10 Million Ton
11	Mine Life	:	23 years (as per the Mining plan)
12	Man power	:	Total manpower 347.
13	Water Requirement	:	1510 KLD
14	Water Source	:	Domestic water requirement is 1110 KLD source- MADA supply. Industrial water requirement is 400 KLD source-Mine water.
15	DG Set / power	:	4800 KVA. (Source-DVC and JSEB)
16	Crusher	:	Not Applicable as no crushing is involved.
17	Nearest Water Body	:	Damodar River
18	Nearest Habitation	:	Jitpur and Noonudih village.
19	Nearest Rail Station	:	Bhaga Railway Station-3 Km and Dhanbad Railway Station-13 Km from Jitpur Mining Lease
20	Nearest Air Port	:	Ranchi Airport- 150 km
21	Nearest Forest	:	1596m away from project.
22	Road & Highways	:	NH-19 (Old NH-2): About 16 km away passes through Dhanbad

CO-ORDINATES

1	Latitude	Latitudes 23°42'32" to 23°43'14" N
2	Longitude	Longitude 86°23'05" to 86°24'14" E.

LAND DETAILS

1	Total land 163.69 ha of Mining Lease area. • SAIL land: 35.35 ha • Private land: 103.82 ha • Government land:24.52 ha • Forest land : Nil Plot wise details - Mouza : Jitpur (Thana No. 108) Khata No.- 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13,14,15 , 16, 17 ,18, 19, 20, 21 , 22, 23, 24, 25, 26, 27, 28,29, 30, 31 32, 33, 34, 35, 36,37, 38, 39.
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Plot No. : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 65/391, 242/388, 295/389, 307/394, 355/393, 359/390, 370/392.

Noonudih - (Thana No. 109)

Khata No.- 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149.

Plot No. :- 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221.







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STATUTORY CLEARANCES

1	LOI/Lease docs	: The total Lease hold area of Jitpur is 163.69 Ha, containing two mouzas namely Jitpur (87.31 Ha) and Noonudih (76.38 Ha). Lease was granted in the year 1902 for a period of 991 years. The Ministry of Coal issued notification dated 1 st October, 2021 regarding amendment of Mineral concession Rule and called Mineral Concession (Amendment) Rules, 2021. As per 24C (2) (Period of mining lease granted to Government companies or corporation) all subsisting mining leases vested or granted to Government companies or corporation before commencement of Mineral Concession (Amendment) Rules,2021 for coal or lignite shall be deemed to have been granted for fifty years or till 31 st March 2030, whichever is later. In pursuance to the Mineral Concession (Amendment) Rules, 2021 application submitted to DMO, Dhanbad on 06.12.2021 for lease validity as applicable under 24C (2).
2	CO	: The CO, Jharia vide letter no. 1736, dated 28.12.2022 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.
3	DFO Wild Life	: DFO, Wildlife Hazaribag vide letter no. 23 & 24, dated 09.01.2023 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
4	Territorial DFO	: DFO, Dhanbad Forest Division vide letter no. 2342 & 2343, dated 11.10.2022 and letter no. 90 & 91, dated 11.01.2023 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
5	Consent to Operate (CTO)	: CTO granted by JSPCB vide Ref. no. : JSPCB/HO/RNC/CTO-1174113/ 2017/1550, dated 07.11.2017.
6	Terms of Reference (ToR)	: Violation ToR granted by MoEF&CC, Govt. of India vide Letter no. : IA-J-11015/66/2015-IA-II(M), dated 27.04.2021.
7	Public Hearing	: Public Hearing conducted on 05.07.2022.
8	Mine Plan	: JHJH004/APP0068/2021, dated 18.08.2022.

Working Details

1	Mining Method	: Underground Mine. Longwall panel with hydraulic Sand/Bottom Ash stowing method.
2	Quarry Area	: NA

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3	Waste Generation	:	5 years– Nil	Life of Mine –23 years
4	Stripping Ratio	:	Not Applicable	
5	Working Days	:	300	
6	Benches: size & No	:	NA	
7	Elevation of Mine	:	170.835 MRL	
8	Ground Level Elevation	:	158m to 177m (Lowest and Highest contour)	
9	Ultimate Working Depth	:	543m	
10	Water Table	:	5.85 to 9.87 m	
11	Topography of Mine	:	Undulating, slopes slightly from North to South.	
12	Explosive Requirement	:	22394 kg /Yearly (Permitted-5)	
13	Diesel/Fuel requirement	:	2.15 KL/year (For DG set)	

Production Details for first five year as per Approved Mining plan

Year	Production of coal (Million Ton)
1 st	0.12
2 nd	0.12
3 rd	0.17
4 th	0.36
5 th	0.32

Solid Waste Management

- Waste Generation will be **Nil** during the life of mine. It is an underground mine, stone generated during coal mining utilised for side wall packing of the u/g mine galleries.

Water Quality Management

- Underground Mining is planned below the ground water table.
- The rain water during rainy season will be collected in a rain water harvesting pit. Mine water is used for dust suppression and plantation. Garland drain has been made around working shaft.
- Retaining walls along the jore/nalla constructed to prevent water flowing into the lease area
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Being an underground mine, drilling at surface is not required. Moreover, drilling of roof rock at underground for installation of supports is done in conjunction with water spraying. Drilling of coal hole at underground is undertaken after the complete face has been wetted with water.
- Water sprinkling will be done on the roads of Jitpur
- Water sprinkling at loading area not required since the mode of transport of coal is through aerial ropeways.

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- Use of personal protective equipment like dust mask etc shall be put in practice
- Monitoring of the ambient air quality is being carried out as per norm.

Undertakings affirming the following have been submitted:

- a. No ground water is used for domestic purpose, any mining activities or any other use and therefore undertakes that no ground water will be used for domestic purpose, any mining activities or any other use.
- b. The Boundary Pillars of the Noonodih & Jitpur mining lease area will be maintained properly.
- c. One season post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- d. The plantation work will be done as per the approved Mining Plan / Review of Mining plan of Noonodih & Jitpur mining lease area.
- e. Sufficient water spray using water tankers will be done for effective dust suppression within the Noonodih & Jitpur mining lease area.
- f. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records will be maintained.
- g. If any tree felling than necessary permission shall be taken from the competent authority.

PROJECT SUMMARY

The ToR/EC proposal for Jitpur Underground Mine of 0.7 MTPA capacity in mine lease area of 163.69 ha of M/s SAIL located in village Noonudih Jitpur, Tehsil Jharia cum Jorapokhar cum Sindri, District Dhanbad (Jharkhand) was granted by MoEF & CC on 27.04.2021.

Details of project are given as under:

- i. The project area is covered under Survey of India Topo Sheet No. 73I/6 and is bounded by the geographical coordinates ranging from Latitudes 23°42'32" to 23°43'14" N and longitudes 86°23'05" to 86°24'14" E.
- ii. Coal linkage of the project is proposed for Captive use for various Steel plants.
- iii. Employment generation: employment to 347 persons will be provided from the project.
- iv. The project is reported to be beneficial in terms of : The project will further improve the living condition of the people. The project will generate direct as well as indirect employment. The income thus generated will thus improve the beneficiaries living conditions.
- v. Total mining lease area as per block allotment is 163.69 Ha. Mining Plan (Including Progressive Mine Closure Plan) has been approved by the MoC.
- vi. The land usage pattern of the project is as follows:







Land use details (Area in Ha)

S. No.	Landuse	Within ML Area (ha)	Outside ML Area (ha)	TOTAL
1.	Agricultural land	21.34	Nil	21.34
2.	Forest land	Nil	Nil	Nil
3.	Wasteland	37.08	Nil	37.08
4.	Grazing land	Nil	Nil	Nil
5.	Surface water bodies	2.30	Nil	2.30
6.	Settlements	30.01	Nil	30.01
7.	Others (specify)	5.49		5.49
	• Mining Area	54.30		54.30
	• Railway Area	12.12		12.12
	• Other Infrastructure	1.05		1.05
	• Lawn Area			
	TOTAL	163.69	Nil	163.69

- Total geological reserve reported in the mine lease area is 19.33 MT with 16.59MT mineable reserve. Percent of extraction is 49-50%.
- XVA, XIV, XII seams with thickness ranging from 0.9m to 10.36m are workable. Grade of coal is W-III, stripping ratio NA, while gradient is 1 in 6 to 1 in 7.5.
- Method of mining operations envisages by Underground method.
- Life of mine is 23 years @ nominal 0.6 MTPA / peak 0.7 MTPA.
- Transportation of coal has been proposed by Aerial ropeway from mine to Chasnalla washery.
- No National Parks, Wildlife Sanctuaries and Eco-Sensitive Zones have been reported with 10 km boundary of the project.
- The ground water level has been reported to be varying between 5.85m to 9.87m during pre-monsoon and between 3.12m to 6.43m during post-monsoon. Total water requirement for the project is 1510 KLD.
- Public hearing for the project of 0.6/0.7 million ton capacity in an area of 163.69 Ha was conducted on 05.07.2022. Major issues raised in the public hearing included in the Final EIA-EMP report.
- Consent to Operate for the existing capacity was obtained from the State PCB on 07.11.2017 and was valid till 31.03.2022 (for production capacity of 11700 T / month).
- Kari Jore nalla is flowing along western boundary of lease and no diversion is involved.
- Regular monitoring of ambient air quality is being carried out. The documented report is submitted to JSPCB and also to MoEF&CC along with half yearly EC compliance report. In general, the results of ambient air quality monitoring data were found within

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prescribed limits except few aberrations which can be attributed to the specific local conditions during the day of sampling.

- xii. **Total capital cost** of the project is Rs. 222.69 Crores. **CSR cost** to be incurred as per the guidelines. As it is an existing mine, most of the area under reference is developed with surface constraints of colliery complex and no R&R is involved. **Environment Management Cost:** Capital provisions for environmental control measures, which includes pollution control arrangement

Earlier this proposal was presented in SEAC on 20 - 24.02.2023 in which requisite documents were sought are under –

- i. ToR points no. 4 (i), (v), (x) (xi) (xv), (xix), (xxi), (xxii), (xxviii).
- ii. ToR point no. 5 (i).

The Project Authorities have submitted the above mentioned documents.

On the basis of above the State Level Expert Appraisal Committee (SEAC), Jharkhand recommended an amount of rupees 59.855 Lakh as per CPCB guidelines towards remediation plan and natural & community resource augmentation plan to be spent within a period 03 years. The details of summary of Natural resource and Environmental / Ecological Damage assessment with budgetary provision for expenditure under the below mention head for remediation:-

Sl. No.	Major Environment	Details	Cost (Rs. in Lakhs)
1.	Air Environment	Plantation along the road at Bhutgoria Area	5.0
2.	Water Environment	Construction of borewell/ handpump: 10 nos. in 05 villages in buffer zone	10.0
		Construction of rainwater harvesting in schools/community water distribution in buffer zone	5.0
3.	Socio-economic environment	Construction of bathroom/toilet in three schools	5.0
		Establishment of two Computer Lab in two schools	5.0
		Skill development training including women empowerment	5.0
		Renovation of ponds and construction of ghats	14.855
4.	Energy Conservation	Installation of solar street light	10.0
		Total Cost Rs. In Lakhs	59.855

- i. Total budgetary provision with respect to remediation plan and natural and community resource augmentation plan is Rs. 59.855 Lakhs.







- ii. Therefore, PAs shall be required to submit a bank guarantee of an amount of Rs. **59.855 Lakhs** towards implementation of remediation plan and natural and community resource augmentation plan with the Jharkhand State Pollution Control Board.

On the basis of 103rd Minutes of Meeting of SEAC, the project Authority has submitted the Bank Guarantee to Jharkhand State Pollution Control Board, Ranchi. and the evidence of the same has been submitted to SEIAA, Jharkhand on **05.06.2023** bearing Bank Guarantee No. : **1731323BG0000657** dated : **23.05.2023** valid up to **30.06.2026**.

- iii. The bank guarantee shall be released after successful completion of remediation plan, duly recommended by the SEAC, Regional Office – MoEF & CC, Govt. of India and its approval from Regulatory authority(SEIAA). Remediation plan shall be completed in 03 years with the consultation of Local / Urban Bodies / State Govt. Deptt.
- iv. Approval / permission from CGWA shall be obtained before drawing ground water for the project activities, if applicable. Jharkhand State Pollution Control Board shall not issue Consent to Operate (CTO) until the PAs obtains such permission.
- v. PAs shall take other necessary clearances / permissions under various act and rules if any, from the respective authorities / departments.
- vi. STP of adequate capacity shall be established within the project premises.
- vii. Energy conservation measures adhering to part of ECBC norms shall be complied with.
- viii. Action will be taken for the violation by the Jharkhand State Pollution Control Board under the provision of section 19 the Environment (Protection) Act, 1986.

The PAs have submitted the above required documents.

- ix. Jharkhand State Pollution Control Board and project Authorities will **ensure** that the amount of Bank Guarantee shall not be released/lapsed **till the completion** of remediation plan, natural and community resource augmentation plan as directed by MoEF & CC vide **SO – 804 (E)**, dated **14th March, 2017**. In case of non compliance of the said directions/conditions, the Environmental Clearance issued will be deemed to be cancelled with immediate effect.

State Level Environment Level Impact Assessment Authority (SEIAA), Jharkhand in its 104th meeting held on 27th & 28th April, 2023 discussed the project proposal along with recommendations made by SEAC in its 103rd meeting held on 14th, 15th, 16th, 17th and 18th April, 2023 and decided to grant EC to the project.

On the basis of recommendation of SEAC and decision of SEIAA to grant of EC, Environmental Clearance is hereby issued to the **“Jitpur Under Ground Coal Mine of 0.6 / 0.7 MTPA (Normative / Peak) of M/s Steel Authority of India Limited – Collieries Division at Village : Noonudih & Jitpur, Block : Jharia, P.S. : Jorapokhar, District : Dhanbad, Jharkhand (163.69 Ha)”** alongwith the following specific conditions as recommended by SEAC:-

I. Specific Conditions:

- i. This Environmental Clearance is valid subject to the following condition below –
That this project has-



- a. Obtained all legal rights to operate at concerned place.
 - b. Complied with all existing concerned laws of the land and
 - c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.
- ii. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- iii. All raw material to be stored only under covered shed.
- iv. PAs to offset (upto20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- v. Promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
- vi. Trees should be developed & maintained not less than 15% of project area.
- vii. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.
- viii. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.
- ix. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- x. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- xi. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.
- xii. ISO 14k EMS system standard to be followed for implementation of EMPs with MRM in place for feedback to Sr. management
- xiii. No mining/activity shall be undertaken in the forest land or deemed forest without obtaining requisite prior forestry clearance.
- xiv. This Environmental Clearance is granted subject to final outcome of Hon`ble Supreme Court of India, Hon`ble High Court, Hon`ble NGT, MoEF & CC and any other Court of Law, if any, as may be applicable to this project.
- xv. Environmental clearance is subject to obtaining prior clearance from forestry and Wildlife angle including clearance from standing committee of NBWL, as may be applicable to this project (in case any fauna occurs / is found in the Project area or if the area involves forest land or Wildlife habitat i.e. core zone of elephant/tiger reserve etc. and or located with in 10 km. of protected area).
- xvi. The project proponent may apply simultaneously for forest and NBWL clearance, in order to complete the formalities without undue delay, which till process on their



respective merits, no rights will vest in or accrue to them unless all clearance are obtained.

II. Statutory compliance:

- i. The Environmental clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Courts, NGT and any other Court of Law, from time to time, and as applicable to the project.
- ii. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.
- iii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iv. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (incase of the presence of schedule-I species in the study area).
- v. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
- vi. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
- vii. Solid waste/hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules, 2016 / Hazardous & Other Waste Management Rules, 2016 as amended from time to time.
- viii. It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned Regional Office of MoEF & CC at Ranchi and Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi/SEIAA/CPCB.
- ix. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- x. The SEIAA, Jharkhand or any other competent Authority may alter modify the above conditions or stipulate any further condition in the interest of Environment Protection.



III. Air quality monitoring and preservation:

- i. Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO₂ and NO_x. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, *etc.* to be carried out at least once in six months. Online ambient air quality monitoring station/stations may also be installed in addition to the regular air monitoring stations as per the requirement and/or in consultation with the SPCB.
- ii. The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.
- iii. Transportation of coal, to the extent permitted by road, shall be carried out by covered trucks/conveyors. Effective control measures such as regular water sprinkling/rain gun/ mist sprinkling *etc.*, shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
- iv. Major approach roads shall be black topped and properly maintained.
- v. The transportation of coal shall be carried out as per the provisions and route envisaged in the approved Mining Plan or environment monitoring plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a 'bypass' road, it should be so constructed so that the impact of sound, dust and accidents could be appropriately mitigated.
- vi. Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.
- vii. Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provided with dust suppression system. Belt-conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.
- viii. Coal handling plant shall be operated with effective control measures w.r.t. various environmental parameters. Environmental friendly sustainable technology should be implemented for mitigating such parameters.



IV. Water quality monitoring and preservation:

- i. The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board.
- ii. The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No. J-20012/1/2006-1A.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
- iii. Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year. and the data thus collected shall be sent regularly to MOEFCC/RO.
- iv. Monitoring of water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change / Regional Office.
- v. Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for conservation and augmentation of ground water resources.
- vi. The project proponent shall not alter major water channels around the site. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine. The embankment constructed along the river / nallah boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side, stabilized with plantation so as to withstand the peak water pressure preventing any chance of mine inundation.
- vii. Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low lying areas, shall be designed keeping at least 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. The sump capacity shall also provide adequate retention period to allow proper settling of silt material of the surface runoff.
- viii. The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.
- ix. Industrial waste water from coal handling plant and mine water shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time. Oil and grease trap shall be installed before discharge







of workshop effluent. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic waste water.

- x. Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.
- xi. The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations shall be prepared, considering the presence of any river/rivulet/pond/lake etc., with impact of mining activities on it, and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining Plan! EIA-EMP submitted to this Ministry and the same should be done with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS.
- xii. The project proponent shall take all precautionary measures to ensure reverian / riparian ecosystem in and around the coal mine upto a distance of 5 km. A revarian /riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.

V. Noise and Vibration monitoring and prevention

- i. Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs / muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.
- ii. Controlled blasting techniques shall be practiced in order to mitigate ground vibrations, fly rocks, noise and air blast etc., as per the guidelines prescribed by the DGMS.
- iii. The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.

VI. Mining Plan:

- i. Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
- ii. No change in mining method *i.e.* UG to OC, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).



- iii. Mining shall be carried out as per the approved mining plan(including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).
- iv. Underground work place environmental conditions shall be rendered ergonomic and au breathable with adequate illumination in conformance with DGMS standards.
- v. No mining activity shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian Forest Act, 1927.
- vi. Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.

VII. Land Reclamation:

- i. Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change(MOEFCC) from time to time shall be submitted to MOEFCC/Regional Office (RO).
- ii. Post-mining land be rendered usable for agricultural/forestry purposes and shall be handed over to the respective State Government, as specified in the Guidelines for Preparation of Mine Closure Plan, issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
- iii. Regular monitoring of subsidence movement on the surface over and around the working areas and its impact on natural drainage pattern, water bodies, vegetation, structure, roads and surroundings shall be continued till movement ceases completely. In case of observation of any high rate of subsidence beyond the limit prescribed, appropriate effective mitigation measures shall be taken to avoid loss of life and materials. Cracks should be effectively plugged in with ballast and clay soil/suitable material.
- iv. Fly ash shall be used for external dump of overburden, backfilling or stowing of mine as per provisions contained in clause (i) and (ii) of subparagraph (8) of fly ash notification issued vide SO 2804 (E) dated 3rd November, 2009 as amended from time to time. Efforts shall be made to utilize gypsum generated from Flue Gas Desulfurization (FGD), if any, alongwith fly ash for external dump of overburden, backfilling or stowing of mines. Compliance report shall be submitted to Regional Office of MoEF&CC, CPCB and SPCB.
- v. A separate team for subsidence monitoring and surface mitigation measures shall be constituted and continuous monitoring & implementation of mitigation measures be carried out.
- vi. Thorough inspection of the mine lease area for any cracks developed at the surface due to mining activities below ground shall be carried out to prevent inrush of water in the mine.



- vii. Native tree species shall be selected and planted over areas affected by subsidence.
- viii. The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.

VIII. Green Belt:

- i. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered/endemic flora/fauna, if any, spotted/reported in the study area. The Action plan in this regard, if any, shall be prepared and implemented in consultation with the State Forest and Wildlife Department.
- ii. Greenbelt consisting of 3-tier plantation of width not less than 7.5 m shall be developed all along the mine lease area as soon as possible. The green belt comprising a mix of native species (endemic species should be given priority) shall be developed all along the major approach/ coal transportation roads..

IX. Public hearing and Human health issues:

- i. Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.
- ii. The Project Proponent shall undertake Occupational Health survey for initial and Periodical medical examination of the workers engaged in the Project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS Circulars. Besides carrying out regular periodic health check-up of their workers, 20% of the workers engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any.
- iii. Personnel (including outsourcing employees) working in dusty areas shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.
- iv. Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines.
- v. Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.
- vi. Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall undertake all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing. Land oustees shall be compensated as per the norms laid out R&R Policy of the Company/ or the National R&R Policy/ R&R Policy of the State Government. as applicable.



- vii. The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.II (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area.

X. Corporate Environment Responsibility:

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry / Regional Office along with the Six Monthly Compliance Report.
- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
- vi. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants shall be implemented.
- vii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

XI. Miscellaneous:

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.



- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- v. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vi. The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- x. Concealing factual data or submission of false / fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xiv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.



- xv. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- xvi. The Prescribed EC is valid as per Notification no. S.O. 1807(E) dated 12.04.2022 of MoEF & CC, Govt. of India.

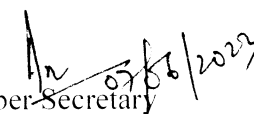
Sd/-
Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.

Memo No : **EC/SEIAA/2022-23/2733/2022/103.**

Ranchi, Date : **07.06.2023.**

Copy to:

1. Additional Chief Secretary, Department of Forests, Environment & Climate Change, Govt. of Jharkhand.
2. Deputy Commissioner, District- Dhanbad, Jharkhand.
3. Divisional Forest Officer, Dhanbad Forest Division, Dhanbad, Jharkhand.
4. Divisional Forest Officer, Wildlife Division, Hazaribagh, Jharkhand.
5. Director IA Division, Monitoring Cell, MoEF and Climate Change, Indira Paryavaran Bhavan, Jorbag Road, Aliganj, New Delhi – 110003.
6. Integrated Regional Office, Ranchi, Ministry of Environment, Forest and Climate Change, 2nd Floor, Jharkhand State Housing Board (HQ), Harmu Chowk, Ranchi, Jharkhand – 834002.
7. Member Secretary, Jharkhand State Pollution Control Board, Ranchi.
8. Secretary, Jharkhand State Expert Appraisal Committee, Ranchi.
9. Website.
10. Guard file.


Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.