	CLEARANCE	Ministry of Environme (Issued by the State En Authority(STo,The Vice President THE INDIAN STEEL AND WILL	rnment of India ent, Forest and Climate Change nvironment Impact Assessment EIAA), JHARKHAND) RE PRODUCTS LIMITED
PARIVESH	(Pro-Active and Responsive Facilitation by Interactive, and Virtuous Environmental Single-Window Hub)	 under the provision of EIA Not Sir/Madam, This is in reference to your a in respect of project submitted SIA/JH/IND1/440210/2023 dated 15 Aug clearance granted to the project are as 1. EC Identification No. 2. File No. 3. Project Type 4. Category 5. Project/Activity including Schedule No. 6. Name of Project 7. Name of Company/Organization 8. Location of Project 9. TOR Date 	application for Environmental Clearance (EC) to the SEIAA vide proposal number 2023. The particulars of the environmental below. EC23B008JH110673 EC/SEIAA/2023-24/2785/2023 Expansion B 3(a) Metallurgical industries (ferrous & non ferrous) Expansion of existing Rebars & Wire
	PARANEH ATTORN	Date: 11/09/2023	(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, Dhurwa, Ranchi. Jharkhand-834 004. E-mail: <u>msseiaa.jhk@gmail.com/chr-seiaajhr@gov.in</u>

website: www.jseiaa.org

Letter No.- EC/SEIAA/2022-23/2785/2023/

Ranchi. Date:

- To: M/s The Indian Steel and Wire Products Limited, Sri Indrajit Nandi,
 Vice President (Engg. & Project),
 Flat no. 7 D & E, 7th Floor, Everest House,
 46 C Chowringhee Road, Kolkata - 700071.
- Sub.: Environmental Clearance for the project "Expansion of existing Rebars & Wire Rods at Wire Rod Mill from capacity 2,67,000 TPA to 4,75,200 TPA & HC & MS GI Wires at Wire Mill from 62,050 TPA to 2,37,600 TPA and 100 TPA Graphene Powder production facility by M/s The Indian Steel and Wire Products Limited at Jamshedpur Notified Area Committee, Distt. : East Singhbhum, Jharkhand" (Proposal No. : SIA/JH/IND1/440210/2023) – regarding.
- **Ref:** Your application no. ISWP/POLL/2023-24/392/14, dated 14.08.2023.

Sir.

It is in reference to the project "Expansion of existing Rebars & Wire Rods at Wire Rod Mill from capacity 2,67,000 TPA to 4,75,200 TPA & HC & MS GI Wires at Wire Mill from 62,050 TPA to 2,37,600 TPA and 100 TPA Graphene Powder production facility by M/s The Indian Steel and Wire Products Limited at Jamshedpur Notified Area Committee, Distt. : East Singhbhum, Jharkhand". submitted by you for seeking prior Environmental Clearances (EC).

This is an expansion project which has been taken for appraisal on 18.08.2023.

M/s The Indian Steel and Wire Products Limited has made an online application vide proposal no. SIA/JH/ IND1/ 440210/2023 along with copy of EIA/EMP report seeking Environment Clearance (EC) under the provision of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 3(a) "Metallurgical Industries (Ferrous and Non-Ferrous)" under category "B" of the schedule of the EIA notification, 2006.

This is an expansion and modernization proposal within the existing plant premises of 27.56 ha (68.10 Acres). The project of M/s The Indian Steel and Wire Products Limited is located at Indranagar, Golmuri, Jamshedpur, Khata no. 33, Ward no. 14 of Jamshedpur Notified Area Committee, District East Singhbhum, Jharkhand.

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The proposal is for Expansion of existing Rebars & Wire Rods at Wire Rod Mill from capacity 2,67,000 TPA to 4,75,200 TPA: HC, MS & GI/LRPC Wires at Wire Mill from 62,050 TPA to 2,37,600 TPA and 100 TPA Graphene Powder production facility.

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 102^{nd} meeting held on 21-25.03.2023 and SEIAA, Jharkhand has approved the ToRs in 103^{rd} meeting held on 01^{st} & 02^{nd} April. 2023. TOR for the project was issued by SEIAA, Jharkhand vide letter no. EC/SEIAA/2022-23/2785/2023/23, date 12.04.2023. The final EIA / EMP submitted by PP to SEIAA on 14.08.2023 and which was forwarded to SEAC on 14.08.2023.

Environmental Site Settings:

SI. No.	Particulars		Details			
1	Total Land	27.56 ha (68.10 /	Industrial Land			
2	Land Acquisition Details	The land is lease land is in pos Expansion is premises itself.	No additional land required			
3	Existence of habitation & involvement of R&R. if any	No habitation is area. Nearest habitation Namda Basti situ in SSW direction	R&R not applicable			
4	Latitude and longitude of all corners of the project site	The project li 22°46°13.916" N longitude 86°13° E				
5	Elevation of the project site	170 m to 172 m a				
6	Involvement of forest land if any	No forest land is	No forest land is involved in the project			
	Water body (River,	Water Body	Distance	Direction		
		Subarnarekha River	2.90	North		
	Lakes, Pond. Nala, Natural Drainage,	Kharkai River	5.10	West		
7						
8	Existence of	Project located of			Integrated	
		R			<u> </u>	

ESZ/ESA/National	Name of ESZ: Dalma Wildlife Sanctuary	wildlife
Park/Wildlife	Status of Notification: Notified	management
Sanctuary/Biosphere	Distance from Project: 7 km NNE*	plan has been
Reserve/Tiger	List of RF and PF:	prepared and
Reserve/Elephant	Kamargora Protected Forest - 8.57 NW	submitted.
Reserve etc. if any	Kudada Reserve Forest - 7.48 SW	
within the study area	Bardih Protected Forest - 7.40 N	
	Bhelaipahari Reserve Forest - 7.3NE	
	Dalma Wildlife Sanctuary – 7 NNE*	
	Rahergarah Protected Forest - 5.86 NE	
	Dhan Chatani Reserved Forest - 3.32 SE	

The proposed mill is located in Khata no. 33. Ward no. 14 of Jamshedpur Notified Area Committee, District East Singhbhum, Jharkhand. The project lies in between latitude 22°46'13.916" N to 22°46'38.061" N and longitude 86°13'51.326" E to 86°14'9.540" E, details of the corner coordinates are as below:

Pillar no	Latitude	Longitude
1	22°46`38.061`` N	86°13`51.647`` E
2	22°46`36.104`` N	86°13`53.563`` E
3	22°46`36.599`` N	86°13`54.203`` E
4	22°46`35.658`` N	86°13`54.203`` E
5	22°46'37.256" N	86°13`57.174`` E
6	22°46`34.206`` N	86°14`0.806`` E
7	22°46`33.158`` N	86°14`9.540`` E
8	22°46`16.650`` N	86°14`8.957`` E
9	22°46`15.678`` N	86°14`0.446`` E
10	22°46°13.916" N	86°13`56.334`` E
11	22°46`14.372`` N	86°13`51.326`` E
12	22°46`26.592`` N	86°13`51.640`` E

Land details:

Khata Number	Plot Number			
33	306. 307. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 565. 566. 760. 761 (ward no. 14. Jamshedpur Notified).			

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Unit	Existing	Addition	Final (TPH)	Capacity (TPA)	Remarks	
			Rod Mill			
Reheating Furnace	x 55 TPH For 2.77.947 TPA Billets heating	Process & efficiency optimization to achieve. 1 x 60 TPH	F F		Expansion through process optimization and maximum equipment	
Rod Mill (25 Strands)	1 x 55 TPH For 2,67,000 TPA Rebars & Wire Rods	Process & efficiency optimization to achieve. 1 x 60 TPH	1 x 60	4,75,200 Rebars & Wire Rods	efficiency utilization. No additional/new equipment installation.	
			Wire Mill			
Wire Drawing	7 x 1 TPH For 62,050 TPA HC, MS & GI Wires	23 x TPH	30 x 1	2,37,600 HC, MS & GI/LRPC Wires	Addition of new lines * The total product mix of HC, MS & GI/LRPC Wires will be maintained	
Galvanizing Line	1 x 7.6 TPH	1 x 7.6 TPH	2 x 7.6	1,20,000 GI Wires	within 2,37,600 TPA	
		Graphe	ne Powder Fa	cility		
Pusher Furnace Balling Machine Packaging Machine	1 x 0.014	-	1 x 0.014	100	No change proposed	

The unit configuration and capacity of the proposed project is given below:

The details of raw material requirement for the proposed project along with its source and mode of transportation is given below:

#	Section	Raw Material	Existing	Additiona l	Final	Source	Mode of Transportati on
			Wire Rod Mil	l – annual		1	
1	Rod Mill	Billets (T)	2,77,947	2,16,736	4,94,683	Tata Steel, others	Road
2	Wire Mill	Wire Rod (T)	63,272	1,79,009	2,42.281	In- house, others	Road
M	>		Ş				1

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		Graph	ene Powder	Facility - ann	ual		
1	Graphene Powder	Shellac. Intercalated Graphene (T)	175	-	175	Tata Steel	Road
		Fu	el Requireme	ents - annual			
1	LDO/FO - Existing	Furnace Oil (KL)	9,474	7,841	17.314	IOCL	Road
2	Natural Gas* – Proposed	Natural Gas (mmbtu)	2.84.022	3.01.045	5.85.067	GAIL	Pipeline
	L	Oth	ner Requirem	ents - annua			
1	Wire Mill & Graphene	LPG (Existing. kg)	2,284	5.064	7.348	IOCL	Road
		Zinc (T)	1,139	2.532	3,671	Hindus tan Zinc	Road
2	For Galvanizing	Lead (T)	126	281	408	Hindus tan Zinc	Road
		HCL (KL)	696	1,547	2.243	Local Market	Road

The company has proposed to shift to cleaner fuel of Natural Gas within 14 months of operation of the expanded facility.

The makeup water requirement for the proposed expansion is estimated as 769 KLD which will be met through pipeline from TSUIL (Formerly JUSCO). Total makeup water requirement at final stage after expansion will be 1354 KLD.

Industrial wastewater will be about 82 KLD out of which 80 KLD rinse water from acid bath will be treated in ETP approx. 1.63 KLD water will be evaporation, sludge and other losses. 0.37 KLD Waste Pickle Liquor will be disposed to Adityapur TSDF. The existing ETP has a capacity of 40 KLD. It will be augmented and upgraded to treat 80 KLD wastewater. Domestic wastewater generated is envisaged as 38 KLD. It will be treated in STP of 900 KLD (800 + 100 KLD) capacity situated outside the plant premises operated by ISWPL.

The power requirement for the proposed expansion is envisaged as 4 MW. which will be obtained from TSUIL. Total power requirement at the final stage after expansion will be 12 MW. DG set of 250 KVA is present for backup.

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Baseline Environmental Status :

Period	October 2021 to December 2021 (post monsoon)
Air Environment	$PM_{10} = 64.8 \text{ to } 98.8 \ \mu\text{g/m}^3$ $PM_{2.5} = 30.3 \ 55.9 \ \mu\text{g/m}^3$ $SO_2 = 10.2 \text{ to } 18.2 \ \mu\text{g/m}^3$ $NO_3 = 22.8 \text{ to } 36.6 \ \mu\text{g/m}^3$
AAQ Modelling max. Incremental GLCs (with control measures)	PM ₁₀ – 0.70 μg/m ³ PM _{2.5} – 0.50 μg/m ³ SO ₂ – 1.00 μg/m ³ NO _x – 0.80 μg/m ³ at 150 m from Stack towards ENE
Groundwater Quality	pH: 7.21 to 7.44, Total Hardness: 64 to 140 mg/l, Chloride: 18.8 to 42.2 mg/l, Fluoride: 0.051 to 0.23 mg/l, Alkalinity – 60 to 132.0 mg/l, TDS: 142 to 230 mg/l
Surface Water Quality	pH: 7.12 to 7.52, DO – 6.1 to 6.8 mg/l, BOD – 2.1 to 2.6 mg/l, COD – 4.1 to 10.6 mg/l
Noise Environment	41.1 to 72.4 dB(A) at Daytime and 32.5 to 63.1 dB(A) at Night- time
Soil Environment	pH: 6.88 to 7.22, Conductivity: 349.6 to 511.6 µS, Moisture%: 6.8 to 7.8%, Potassium: 366 to 418 kg/ha, Nitrogen: 144 to 208 kg/ha
Traffic assessment study	 Traffic study has been conducted at Cummin's Road joining the material gate of the project. Namdih road located adjacent to project site and Telco Road. an intersection of importance. Transportation of raw material and finished goods will be done 100% by road. Existing PCU is 511.4 PCU/hr and existing LOS is C Proposed PCU during operation phase is 740 PCU/hr and the service remains as LOS C
Flora & Fauna	12 schedule-I species identified in the study area. Integrated Wildlife Conservation Plan has been submitted to PCCF vide ISWP/PCCF/IWMP/285/23 on 12/07/2023.
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The details of solid and hazardous waste generation along with its mode of treatment/disposal is furnished below:

Facility	Waste	Existing	Additional	Final	Management
	ak <i>a.</i> , ya	S	olid Waste pe	er annum	
	Scrap (T)	7.215	7.279	14,494	
Wire Rod &	Mill scale (T)	2.732	2.258	4.990	Used in foundry - JEMCO
Wire Mill	Dry Burnt Lubricant (T)	72	84	156	Supplied to industrial lubricant soap manufacturing
		Haz	ardous Waste	e per annu	Im
All units	Used Oil (KL)	12.9 KL	2.65 KL	15.55 KL	Stored and disposed to Authorized recyclers as per norms
	Lead Ash (T)	129	-	-	Stand and dispessed to
	Zinc Dross (T)	155	117	272	Stored and disposed to Authorized recyclers
Wire Mill	Zinc Ash (T)	358	382	740	
ETP	Waste Pickle Liquor (KL)	45	80	125	Adityapur Waste Management Pvt. Ltd.
	Sludge (T)	77	78	155	TSDF. Adityapur

Public Consultation:

Details of advertisement	15.06.2023 in Prabhat Khabar and Times of India				
Date of public	24.07.2023				
consultation					
Venue	Tinplate Kali Mandir marriage Hall. Jamshedpur				
Presiding Officer	Mr. Piyush Sinha, SDO, Jamshedpur				
Major Issues Raised	 Upgradation of basic infrastructure like road. electricity. drinking water & drainage system. Support on education. sports. and Health care facilities. Ensure safety of the processes. Ensure pollution control facilities. Employment opportunity. 				

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Physical Activity and Action Plan		Year Wise Proposed Public Hearing Compliances Budget (Rs. In Lakhs)			Total Amount	Detail of the Physical Target
Name of the Activity	Total Physical Targets	1 st Year	2 nd Year	3 rd Yea r	Lakhs)	i nysten Target
Education						
Primary education for Childrens of Basti area	40/Year	2.40	3.00	3.40	8.80	Support for education of under privilege children- Children from Birsanagar zone no. 4. 5 & 6, Ramadhin Bagan, & Gaitri Nagar of project site will be mainstreamed in schools
Jyoti Fellowship	30/year	2.00	2.40	2.80	7.20	Merit Base Scholarship to students of class VII std. to Post Graduation Std. under Affirmative Actions Program from Birsanagar zone no. 4, 5 & 6. Ramadhin Bagan, & Gaitri Nagar
Sub Total (Education)		4.40	5.40	6.20	16.00	
Health						
Mobile Public Health camps	200 footfall/mont h	2.00	2.60	3.80	8.40	Primary health check-up, awareness and pathological tests for the community in Birsanagar zone no. 4, 5 & 6 and Ramadhin Bagan which are close to ISWP
	Plan Name of the Activity Education Primary education for Childrens of Basti area Jyoti Fellowship Sub Total (Education) Health	PlanName of the ActivityTotal Physical TargetsEducation	Physical Activity and Action PlanPut Comp (RsName of the ActivityTotal Physical Targets1st YearEducation	Physical Activity and Action PlanPublic Heat Compliances F (Rs. In LakName of the ActivityTotal Physical TargetsIst Year2nd YearEducation	Public Hearing Compliances Budget (Rs. In Lakhs)Name of the ActivityTotal Physical Targets1st Year2nd Year3rd Yea Yea rEducationIIIIIPrimary education for Children's of Basti area40/Year2.403.003.40Jyoti Fellowship30/year2.002.402.80Sub Total (Education)IIIIPrimary education for Children's of Basti area30/year2.002.402.80Jyoti Fellowship30/year2.002.402.80IMobile Public HealthIIIIIMobile Public Health camps200 footfall/mont2.002.603.80	Physical Activity and Action PlanPublic Hearing Compliances Budget (Rs. In Lakhs)Total Amount (Rs. In Lakhs)Name of the ActivityTotal Physical Targets1 st Year2 nd Year3 rd YearTotal Amount (Rs. In Lakhs)Education 40/Year 2.403.003.408.80Primary education for

Action plan as per MoEF & CC O.M. dated 30.09.2020.

							company.
	Sub Total (Health)		2.00	2.60	3.80	8.40	
C	Drinking Water						
1	Assurance of Drinking water quality	Birsanagar zone number 4.5 &6	3.00	3.50	4.00	10.50	Drinking water quality reqularly checked and assurance for good quality drinking water in birsanagar zone 4 5 & 6
	Sub Total (Drinking Water)		3.00	3.50	4.00	10.50	
D	Environment						
2	Display of AQI/OCEMS Board at factory Main gate.	2 nos	13.00	6.00	0.00	19.00	1 nos of OCEMS board will be installed in ISWP and 1 nos in JEMCO
3	Plantation/Affore station Drive (including sampling and protection like tree guard etc)	15000 trees	30.00	19.00	19.0 0	68.00	15000 trees will be planted in the nearby vicinity of plart. @ Rs.453 per plant
	Sub Total (Environment)		43.00	25.00	19.0 0	87.00	
E	Livelihood						
1	Employability of youths through Skill Development programme	20 person/Year	3.00	3.00	4.00	10.00	Skill developmenprogramme atprofessionalinstitutions- ITI:TSTI, JNTVTIBurnamines;Motor DrivingTraining thruMaruti DrivingTraining Institute

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							Nursing Training: etc.
2	Women empowerment through tailoring. beautician, hospitality, etc	15 person	0.50	1.00	1.50	3.00	Women empowerment through vocational trainings like tailoring, beautician training, hospitality training etc.
	Sub Total (Livelihood)		3.50	4.00	5.50	13.00	
F	Infrastructure						
1	Road patchwork along with Drain in the locality	Ramadhin Bagan to Rajak Samaj road - 0.5 Km	10.00	11.30	0.00	21.30	Road patchwork of 0.5 km long with drainage in Ramadhin Bagan to Rajak Samaj Road
2	Streetlights	20 nos. from Ramadhin Bagan to Rajak Samaj	2.00	4.00	2.40	8.40	20 nos. of street light facility from JEMCO bus stand to Rajak Samaj.
	Sub Total (Infrastructure)		12.00	15.30	2.40	29.70	-
	Grand Total		67.90	55.80	40.9 0	164.60	

The existing capital cost of the project is Rs. 141 Crores, additional cost envisaged is Rs. 109 Crores. Final Project cost will be Rs. 250 Crores.

Cost for environmental protection measures is proposed as Rs. 9.29 Crores. The annual recurring cost towards the environmental protection measures is envisaged as Rs. 3.34 Crores. The details of cost for environmental protection measures are follows:

SI.	Unit	Detail	Capital Cost (Rs. in Lakhs)		Operating Cost (Rs. in Lakhs)		Mainten	ance Cost	Recurring Cost	
No							(Rs. in Lakhs)		(Rs. in Lakhs)	
•			Existing	Proposed	Existing	Proposed	Existing	Proposed	Existing	Proposed
l	Air	APCD (Recuperat	50	-	5	-	5	-	10	-

	Sub-Total Total		929.86		125.135		209.365		334.5	
			210	719.86	42.44	82.695	77.67	131.695	120.1 1	214.39
7	Public Hearing Compli ances	Solar Panel & Road constructio n etc. as required	-	164	_	-	_	-	-	-
6	Occupat ional Health & Safety	Medical Health check-up. PPE. Fire safety. Natural Gas Safety	50	321.1	12	64.695	45	109.695	57	174.39
5	Green belt Develop ment	Plantation	10	74.76	-	-	-	15	-	15
4	Post Environ mental Monitor ing	Air. Water. Noise. & Soil. CAAQMS. Stack Monitoring	35	70	9	18	3	6	12	24
3	Noise	Mufflers. Acoustic Enclosures	20	20	-	-	-	1	-	1
2	Waste	ETP, Fumeless Pickling	45	70	16.44	_	24.67	-	41.11	-
		or)								

Total manpower requirement for the project will remain same as 674. Locals will be employed during the construction phase.

Existing greenbelt has been developed over 6.14 ha which is about 22.27% of the total project area. Gap plantation will be undertaken in the same. A 10 m wide greenbelt consisting of at least 3 tiers around the plant boundary will be developed as greenbelt and green cover. Additionally, a 4.04 ha area has been identified for plantation outside the plant premises. Local and native species will be planted with a density of 2500 trees per hectare. A total of 15.523 saplings will be planted and nurtured over the combined area of 10.18 ha in 3 years. Total plantation area i.e. 10.18 ha. will be 36.93% of the plant area and approx. 33% of the total area.

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STATUTORY CLEARANCES:

1	LOI/Lease docs	:	The land owned by Tata Steel for the period of 99 years vide lease deed no. 7415-7051, dated 01.06.1935.					
2	СО	•	The CO, Jamshedpur, East Singhbhum vide memo no. 2359, dated 07.12.2022 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyan & Register II.					
3	DFO Wild Life	•	DFO, Dalma Elephant Project vide letter no. 1811. dated 13.12.2022 certified that the proposed project site is outside Eco Sensitive Zone of Dalma Wildlife Sanctuary.					
4	DFO Forest Distance	•	DFO. Jamshedpur Forest Division vide letter no. 3048. dated 15.12.2022 certified that the distance of reserved / protected forest is more than 250 m from project site.					
5	Consent tc Establish (CTE) & Consent tc Operate (CTO)	:	Combined Consent (CTE & CTO) issued by JSPCB vide Ref. no. JSPCB/RO/JSR/CTE/CTO-6875830/2019/49. dated 10.12.2019.					
6	Consent to Establish (CTE)	•	CTE issued by JSPCB vide Ref. no. : i. JSPCB/HO/RNC/CTE-6149603/2020/85. dated 07.02.2020. dated 07.02.2020/85. dated ii. JSPCB/HO/RNC/CTE-6419916/2020/84. dated 07.02.2020. dated 07.02.2020/84. dated					
7	Consent to Operate (CTO)	•	CTO granted by JSPCB vide Ref. no. : i. JSPCB/RO/JSR/CTO-9498890 /2021/50. dated 15.03.2021. ii. JSPCB/HO/RNC/CTO-11018282 /2023/226. dated 02.02.2023.					
8	Hazardous Waste Authorization	:	JSPCB/HO/RNC/HWM-1685952 / 2018 / 30, dated 08.04.2018.					
9	Public Hearing	:	JSPCB vide Ref. no. PC/P.H./JSPCB/62/05-2023/B-1598, dated 13.06.2023 informed that Public Hearing conducted on 24.07.2023.					

There are no violations, court cases, show cause or direction issued by any authority against the project as informed by project proponent.

The proposal was appraised by State Level Expert Appraisal Committee (SEAC) and recommended for grant of Environmental Clearance in its 107th meeting held on 16th, 17th, 18th, 19th and 20th August, 2023.

State Level Environment Impact Assessment Authority (SEIAA). Jharkhand in its **108**th meeting held on **27**th **& 28**th **August, 2023** discussed the project proposal along with recommendations made by SEAC and decided to grant EC to the project.

Following the decision of SEIAA. as mentioned above. Environmental Clearance is hereby issued to the "Expansion of existing Rebars & Wire Rods at Wire Rod Mill from capacity 2,67,000 TPA to 4,75,200 TPA & HC & MS GI Wires at Wire Mill from 62,050 TPA to 2,37,600 TPA and 100 TPA Graphene Powder production facility by M/s The Indian Steel and Wire Products Limited at Jamshedpur Notified Area Committee, Distt. : East Singhbhum, Jharkhand" alongwith the following specific conditions as recommended by SEAC.

I. Specific Conditions :

- 1. 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.
- 2. Process water and storm water to be handled seperatly and should not be mixed.
- 3. Treated effluent water to be reused suitably and shall not be discharged outside.
- 4. Ground water to be drawn for use in the project only after obtaining permission from the Competent Authority.
- 5. 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.
- 6. All raw material to be stored only under covered shed.
- 7. 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.
- 8. Developers to 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.
- 9. Trees should be developed & maintained not less than 33% of project area.
- 10. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.
- 11. 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.
- 12. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- 13. MSW Collection centre should be located in isolated and preferably unmanned area. Movement of the vehicle carrying waste should be under tarpaulin covered condition only. Route of vehicle should be such that it avoids residential areas as far as practical.

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14. ISO 14k EMS system standard to be followed for implementation of EMPs with MRM in place for feedback to Sr management

II. Statutory Compliance :

- 1. 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.
- 2. The project proponent shall obtain clearance from the National Board for Wildlife if applicable.
- 3. 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. (in case of the presence of schedule-I species in the study area).
- 4. In the writ petition (Civil) no. 202/1995, T.N. Godaverman Thirumulpad vs union of India and ors. the Hon'ble Supreme Court passed an order dated 03.06.2022 " National Park or Wildlife Sanctuary must have an ESZ of minimum 01 km in which the activities prescribed and prescribed in the guidelines of 09th February. 2011 shall be strictly adhered to".
- 5. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act. 1981 and the Water (Prevent on & Control of Pollution) Act, 1974 from the concerned State pollution Control Board Committee.
- 6. 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.
- 7. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules. 2016 as amended from time to time.
- 8. No mining/activity shall be undertake in the forest land or deemed forest without obtaining requisite prior forestry clearance.
- 9. 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.
- 10. 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).
- 11. 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.

III. Air quality monitoring and preservation :

- 1. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EAF) as amended from time to time: S.O. 3305 (E) dated 7th December 2015(Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act. 1986 or NABL accredited laboratories.
- 2. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- 3. The project proponent shall install system carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PMIO and PM25 in reference to PM emission, and S02 and NOx in reference to S02 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions. (case to case basis small plants: Manual: Large plants: Continuous)
- 4. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality *I* fugitive emissions to Regional Office of MoEF&CC. Zonal office of CPCB and Regional Office of SPCB along with sixmonthly monitoring report.
- 5. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources.
- 6. The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.
- 7. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- 8. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after *briquettingl* agglomeration.
- 9. The project proponent shall use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- 10. The project proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.
- 11. The project proponent shall provide primary and secondary furne extraction system at all melting furnaces.
- 12. Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.



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IV. Water quality monitoring and preservation:

- 1. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (applicable to IF / EAF) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplie: specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories. (case to case basis small plants: Manual: Large plants: Continuous).
- 2. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- 3. The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC. Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- 4. Adhere to 'Zero Liquid Discharge'.
- 5. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- 6. The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.
- 7. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off
- 8. The project proponent shall practice rainwater harvesting to maximum possible extent.
- The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water

V. Noise monitoring and prevention:

- 1. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- The ambient noise levels should conform to the standards prescribed under E(P)A Rules. 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

VI. Energy Conservations measures:

- 1. The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.
- 2. Practice hot charging of slabs and billets/blooms as far as possible.
- 3. Ensure installation of regenerative type burners on all reheating furnaces.
- 4. Provide solar power generation on rooftops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
- 5. Provide the project proponent for LED lights in their offices and residential areas.

VII. Waste Management:

- 1. Used refractories shall be recycled as far as possible.
- 2. Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried, and briquetted and reused melting Furnaces
- 3. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
- The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules. 2016.
- 5. Kitchen waste shall be composted or converted to biogas for further *use.(to be decided on case to case basis depending on type and size of plant).*

VIII. Green Belt:

- 1. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.
- 2. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration including plantation.

IX. Public Hearing and Human Health issues:

- 1. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- 2. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- 3. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The

housing may be in the form of temporary structures to be removed after the completion of the project.

X. Corporate Environment Responsibility:

- 1. 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.
- 2. 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 / 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.
- 3. 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.
- 4. 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.
- 5. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
- 6. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants shall be implemented.
- 7. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

XI. Miscellaneous:

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- 1. 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.
- 2. 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.

- 3. 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.
- 4. The project proponent shall monitor the criteria pollutants level namely: PMIO. S02, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- 5. 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.
- 6. 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.
- 7. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- 8. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- 9. 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.
- 10. 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).
- 11. 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.
- 12. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- 13. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- 14. 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.
- 15. 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

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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.

16. Any appeal against this EC 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.

XII. Other Conditions:

- 1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
- 2. The Prescribed EC is valid as per Notification no. S.O. 1807(E) dated 12.04.2022 of MoEF&CC, Govt. of India.
- 3. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.

Sd/-

Member Secretary State Level Environment Impact Assessment Authority, Jharkhand.

Memo No.- EC/SEIAA/2022-23/2785/2023/ 237

Dated: 29.08.2023

Copy to:

- 1. Additional Chief Secretary, Department of Forests, Environment & Climate Change, Govt. of Jharkhand.
- 2. Deputy Commissioner, District- East Singhbhum, Jamshedpur Jharkhand.
- 3. Divisional Forest Officer, Jamshedpur Forest Division. Jamshedpur, Jharkhand.
- 4. Deputy Conservator of Forest & Field Director, Elephant Project, Jamshedpur, Jharkhand.
- 5. Director IA Division, Monitoring Cell, MoEF and Climate Change, Indira Paryavaran Bhavan, Jorbag Road, Aliganj, New Delhi 110003.
- 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.

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