



सत्यमेव जयते

File No: 2024/EC/E/08
Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment
Authority(SEIAA), PUNJAB)



Date 15/03/2024



To,

Suresh Kumar
SURESH KUMAR (HUF)
M/s Radhika Steel Industries R.G. Mill Road, Mandi Gobindgarh, Distt. Fatehgarh Sahib, Punjab,
147301
radhikamill@yahoo.com

Subject: Grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 -regarding.

Sir/Madam,

This is in reference to your application submitted to SEIAA vide proposal number SIA/PB/IND1/456408/2023 dated 05/01/2024 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23B1010PB5434839N
(ii) File No.	2024/EC/E/08
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	3(a) Metallurgical Industries (ferrous and non ferrous) Expansion of existing Steel Manufacturing Unit namely M/s Radhika Steel Industries located at R.G. Mill Road, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab for increasing the production capacity to 230 TPD (80,500 TPA).
(vii) Name of Project	
(viii) Name of Company/Organization	SURESH KUMAR (HUF)
(ix) Location of Project (District, State)	FATEHGARH SAHIB, PUNJAB
(x) Issuing Authority	SEIAA
(xi) Applicability of General Conditions as per EIA Notification, 2006	Yes

3. State Environment Impact Assessment Authority (SEIAA), Punjab has examined the proposal for the expansion of

existing steel manufacturing unit namely M/s Radhika Steel Industries for increasing the production capacity from 84 TPD to 230 TPD (80,500 TPA) of Ingots/Billets or Rolled Products (Bars/ Square/ Rounds/Flats/ Angle) with Induction Furnace of capacity 15 TPH and Rolling Mill located at R.G. Mill Road, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab. The project is covered under Schedule 3(a) & Category 'B1' as per EIA Notification, dated 14.09.2006 and its subsequent amendments and requires appraisal at the State level.

4. State Environment Impact Assessment Authority (SEIAA), Punjab had granted Terms of Reference (TOR) vide letter no. SEIAA/MS/2023/144 dated 30.01.2023 to the project proponent.

5. The proposal has been appraised as per the procedure prescribed under the provisions of EIA Notification 14.09.2006 based on mandatory documents enclosed with the application viz Form-2, EIA, EMP, and additional documents and subsequent presentation/ clarifications made by the project proponent and his consultant to the observations of SEIAA and SEAC.

6. As per the report of the Punjab Pollution Control Board vide letter No. 29176 dated 24.11.2023, no construction work of the proposed project has been started at site and only boundary wall has been done at the site.

7. This is an expansion project. The details of the project, as per the application and documents/ presentation submitted by the project proponent and also as informed during the meetings of SEAC/SEIAA are as under:

Sr. No.	Item No.	Details			
1.	Nature & location of Project	M/s Radhika Steel Industries, located at R.G. Mill Road, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab.			
2.	Latitude & Longitude	Corners	LATITUDE	LONGITUDE	
		A	30° 39' 41.32" N	76° 18' 35.51" E	
		B	30° 39' 42.48" N	76° 18' 37.07" E	
		C	30° 39' 44.74" N	76° 18' 34.97" E	
		D	30° 39' 45.52" N	76° 18' 35.92" E	
		E	30° 39' 48.03" N	76° 18' 31.47" E	
		F	30° 39' 46.95" N	76° 18' 30.04" E	
		G	30° 39' 45.14" N	76° 18' 31.75" E	
		H	30° 39' 45.24" N	76° 18' 31.90" E	
3.	Project/ activity covered	Schedule: 3(a): Metallurgical Industries (ferrous & non-ferrous); Category: B-1			
4.	Type of Environmental Clearance	Fresh			
4.	Classification/ land use pattern as per Master Plan	The industry is located in approved industrial zone as per Master plan of Mandi Gobindgarh. The industry has submitted land use classification of the site vide DTP letter no. 214-DTP(FGS)/NC/82 dated 09.02.2021.			
5.	Cost of the project	S. No.	Existing Cost (in Crores)	Proposed (in Crores)	Total (in Crores)
		1.	12.69	9.55	22.24
6.	Working days	350 days			
7.	Plot area details	13640.84 sqm. (3.3695 acres)			
8.	Area break-up details	The area breakup details are given below:			
		S. No.	Description	Total area (in sq.m.)	
		1.	Shed covered area	3,866.20	
		2.	Other covered areas	680.19	
		3.	Green area	3,614.86	
		4.	Road area	2,832.51	
		5.	Parking area	1076.02	
		6.	Open area	1571.06	

		Total area				13,640.84 sqm
9.	Raw materials details	Raw Materials	Existing	Proposed	Total after expansion	Source
		Scrap & Ferro Alloys	87 TPD	153 TPD	240 TPD (84,000 TPA)	Mostly from Local suppliers of Mandi Gobindgarh/ Ludhiana
10.	Production capacity details	Product Name	Existing	Proposed	Total after expansion	
		Billets/Ingots Or Rolled Products (Bars/ Square/ Rounds/ Flats/ Angle)	84 TPD	146 TPD	230 TPD (80,500 TPA)	
11.	Details of major productive machinery/ plant	S. No.	Machinery	Existing	Proposed	Total after expansion
		1.	Induction Furnaces	1 × 7 TPH	Replacement of existing IF	1 × 15 TPH
		2.	Rolling Mill	1 No.	--	1 No.
12.	Details of the technology proposed for control of emissions & effluents generated from the project					
	Sr. No.	Source of emission	Details	APCD		
	1.	Induction Furnace	1 × 15 TPH	Separate Dog House followed by Pulse Jet Bag Filter with offline cleaning technology to contain & control the primary as well as secondary emissions from Induction furnace having capacity 15 TPH.		
	2.	Rolling Mill	1 no.	-		
	3.	DG Set	1 x 325 KVA	Stack with adequate height		
13.	Manpower Requirement	Existing	Proposed	After Expansion		
		60 workers	35 workers	95 workers		
14.	Break-up of Water Requirements & its source in Operation Phase	Total water demand of the project is 50.5 KLD in Summer, 37 KLD in Winter & 32.3 KLD in Rainy season and the break-up of the same is given as under:-				
		Description	Summer (KLD)	Winter (KLD)	Rainy (KLD)	
		Domestic	6.5	6.5	6.5	
		Cooling (makeup water)	24	24	24	
		Green area water demand	20	6.5	1.8	
		Total	50.5	37	32.3	
15.	Wastewater generation & its disposal Arrangement in Operation Phase	S.No.	Description	Total	Ultimate Disposal	
		1.	Domestic wastewater	5 KLD	Treatment in STP of 10 KLD capacity with MBBR technology. After treatment water will be used in horticulture.	
		2.	Industrial Effluent	Nil	No generation of industrial effluent.	

16.	Hazardous/Non-Hazardous Waste Generation details & their storage, utilization, and disposal.	Hazardous waste:			
		S.No.	Waste category	After Expansion	Disposal
		1.	Category 35.1 Flue gas cleaning residue	0.6 TPD	The dust generated from APCD will be sent to M/s RP Multimetals Pvt Ltd., Unit-II.
		2.	Category 5.1- Used Oil	0.2 KLA	Agreement done with authorized recycler.
17.	Solid Waste generation and its mode of disposal	S. No.	Type of waste	Total	Disposal
		1.	Slag	7 TPD	20% will be used within project premises for metal recovery and 80% will be given to M/s Paras Construction for using it as a filler material for manufacturing of Flyash Briks.
18.	Energy requirements & savings	Description	Unit	After Expansion	
		Power load	KVA	10,000 KVA	
		DG set equipped with canopy and adequate stack height	KVA	1 × 325 KVA	
		<u>Energy Saving measures to be adopted:</u> (i) LEDs will be provided in place of CFLs. (ii) Energy Efficient Induction Furnace will be installed.			

8. As per the information submitted by the project proponent, the application has been filed online vide proposal no. SIA/PB/IND1/456408/2023 dated 05.01.2024 for obtaining Environmental Clearance. As per undertaking given by the project proponent, no forest land is involved in the project and no wildlife sanctuary is located in the vicinity of the project and as such, no NOC under FCA/NBWL permission is required. Further, no litigation is pending in respect of the land on which the project is to be developed.

9. The SEAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, has examined the proposal submitted by the project proponent in the desired form along with the EMP report prepared and submitted by the Consultant accredited by the QCI/NABET on behalf of the project proponent & replies to its observations in its 273rd meeting held on 12.01.2024, 275th meeting held on 05.02.2024 & 277th meeting held on 01.03.2024. The SEAC noted that the project proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the report. If any part of the data/information submitted is found to be false/misleading at any stage, the project may be rejected and Environmental Clearance given, if any, may be revoked at the risk and cost of the project proponent.

10. The Committee noted that the project proponent has provided adequate and satisfactory clarifications to the observations raised by it. Therefore, the Committee decided to forward the case to the SEIAA with the recommendation to grant Environmental Clearance for the expansion of existing steel manufacturing unit namely M/s Radhika Steel Industries for increasing the production capacity from 84 TPD to 230 TPD (80,500 TPA) of Ingots/Billets or Rolled Products (Bars/ Square/ Rounds/Flats/ Angle) with Induction Furnace of capacity 15 TPH and Rolling Mill located at R.G. Mill Road, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab as per the details mentioned in the application proposal & subsequent presentation /clarifications made by the project proponent and his consultant.

11. The case was considered by the SEIAA in its 283rd meeting held on 07.03.2024, wherein SEIAA observed that the case stands recommended by SEAC. The Authority examined and appraised the environmental impacts and other aspects of the project proposal in detail as deliberated upon and recorded in the proceedings of its 283rd meeting held on 07.03.2024 and was satisfied with the same. Therefore, the Authority decided to grant the Environmental Clearance for the expansion of existing steel manufacturing unit namely M/s Radhika Steel Industries for increasing the production capacity from 84 TPD to 230 TPD (80,500 TPA) of Ingots/Billets or Rolled Products (Bars/ Square/ Rounds/Flats/ Angle) with Induction Furnace of capacity 15 TPH and Rolling Mill located at R.G. Mill Road, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab as per the details mentioned in Form 2, EIA report and subsequent presentation /clarifications made by the

project proponent and his consultant with proposed measures, conditions as proposed by SEAC in addition to the proposed measures.

Accordingly, SEIAA, Punjab hereby accords Environmental Clearance to the aforesaid project under the provisions of EIA Notification dated 14.09.2006 and its subsequent amendments subject to proposed measures and strict compliance with terms and conditions as per Annexure 1.

Copy To

1. The Secretary to Govt. of India, Ministry of Environment and Forest, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi
2. The Secretary, Department of Science, Technology & Environment, Government of Punjab, Chandigarh.
3. The Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Bays No. 24-25, Sector 31-A, Dakshin Marg, Chandigarh-160030. The detail of the authorized Officer of the project proponent is as under:

a)	Name of the applicant	:	Sh. Suresh Kumar, Proprietor
b)	Mobile No.	:	9814655580
c)	Email Id	:	radhikamill@yahoo.com
d)	Email ID of Env. Consultant	:	md@ecoparyavaran.org

4. The Deputy Commissioner, Fatehgarh Sahib.
5. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi.
6. The Member Secretary, Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala, 147001
7. The Secretary, Punjab Water Regulation and Development Authority, SCO 149-152, Sector 17-C, Chandigarh-160017.
8. The Chief Town Planner, Department of Town & Country Planning, 6th Floor, PUDA Bhawan, Phase-8, Mohali.
9. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110003
10. Parivesh Portal/Record File.

Annexure 1

Specific EC Conditions for (Metallurgical Industries (Ferrous And Non Ferrous))

1. Additional / Amended Conditions

S. No	EC Conditions
1.1	The Project proponent shall submit compliance of the action plan proposed to address the public hearing issues along with the six-monthly compliance report of EC condition on Parivesh Portal.
1.2	The SEIAA reserves the right to stipulate additional conditions if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time-bound manner. SEIAA may revoke or suspend the environmental clearance if the implementation of any of the above conditions is not found to be satisfactory.
1.3	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 the Environment (Protection) Act, 1986.
1.4	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
1.5	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention &

S. No	EC Conditions
	Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016, the Public Liability Insurance Act, 1991 read with subsequent amendments therein 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.
1.6	This environmental clearance will be valid for a period of ten years from the date of its issue as per MoEF & CC, GoI notification No. S.O. 1807 (E) dated 12.04.2022 or till the completion of the project, whichever is earlier.
1.7	The industry shall submit the progress of developing the green belt in the six-monthly compliance report.
1.8	The industry shall install an online monitoring system at the inlet as well as at the outlet of each APCD for monitoring SPM.

Standard EC Conditions for (Metallurgical Industries (ferrous and non ferrous))

1. Statutory Compliance

S. No	EC Conditions
1.1	The project proponent shall obtain forest clearance under the provisions of the Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purposes involved in the project.
1.2	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)
1.3	The project proponent shall comply with the CLU conditions imposed by the Competent Authority, if any.
1.4	The project proponent shall comply with the siting criteria, standard operating practices, code of practice, and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such types of units.
1.5	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
1.6	The project proponent shall obtain the necessary permission from the Central Ground Water Authority/competent authority concerned, in case of drawl of groundwater and also in case of drawl of surface water required for the project. In case of non-grant of permission by CGWA for groundwater abstraction, the industry shall make alternative arrangements by using surface water or treated city sewage effluent after obtaining permission from the competent authority.
1.7	The project proponent shall obtain Consent to Establish/ Operate under the provisions of the Air

S. No	EC Conditions
	(Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned Punjab Pollution Control Board.
1.8	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.

2. Environment Management

S. No	EC Conditions																
2.1	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants shall be implemented.																
2.2	The self-environmental audit shall be conducted annually. Every three years third-party environmental audit shall be carried out.																
2.3	Year-wise progress of implementation of the action plan shall be reported to the Ministry/Regional Office along with the Six-monthly Compliance Reports.																
2.4	The company shall have a well-laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violations 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 to all/ or shareholders/ stakeholders. A copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of the six-monthly report.																
2.5	A separate Environmental Cell both at the project and company headquarters level, with qualified personnel, shall be set up under the control of the Senior Executive, who will directly report to the head of the organization.																
2.6	<p>An action plan for implementing EMP and environmental conditions along with the responsibility matrix of the company shall be prepared and shall be duly approved by the competent authority. The year-wise funds earmarked for environmental protection measures shall be kept in a separate account and will not be diverted for any other purpose. An action plan for implementing following activities under EMP, Additional Environmental Activities and environmental conditions along with the responsibility matrix of the company shall be prepared and shall be duly approved by the competent authority.</p> <p>Table-1 Environmental Management Plan</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Environmental Protection Measures</th> <th>Capital Cost (Rs. in lakhs)</th> <th>Recurring Cost (Rs. in lakhs/year)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Air Pollution Control (Installation of APCD along with continuous emission monitoring system)</td> <td>60</td> <td>1.5</td> </tr> <tr> <td>2.</td> <td>Water Pollution Control (Installation, operation and maintenance of STP of capacity 10 KLD)</td> <td>10</td> <td>1.5</td> </tr> <tr> <td>3.</td> <td>Noise Pollution Control (Including acoustic enclosure for DG sets, ear</td> <td>2</td> <td>1</td> </tr> </tbody> </table>	S. No.	Environmental Protection Measures	Capital Cost (Rs. in lakhs)	Recurring Cost (Rs. in lakhs/year)	1.	Air Pollution Control (Installation of APCD along with continuous emission monitoring system)	60	1.5	2.	Water Pollution Control (Installation, operation and maintenance of STP of capacity 10 KLD)	10	1.5	3.	Noise Pollution Control (Including acoustic enclosure for DG sets, ear	2	1
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1.	Air Pollution Control (Installation of APCD along with continuous emission monitoring system)	60	1.5														
2.	Water Pollution Control (Installation, operation and maintenance of STP of capacity 10 KLD)	10	1.5														
3.	Noise Pollution Control (Including acoustic enclosure for DG sets, ear	2	1														

S. No	EC Conditions		
	plug etc.)		
4.	Landscaping (development of green area)	7	3.5
5.	Solid Waste Management (Management & disposal of Slag and Hazardous waste)	3	0.5
6.	Environment Monitoring & Management	3	5
7.	Health, Safety & Risk Assessment (Medical check-up, ESI & PPE kit for workers)	2	1
8.	Miscellaneous	2	0.5
Total		Rs. 89 Lakhs	Rs. 14.5 Lakhs
Table-II			
Additional Environmental Activities:			
Sr. No.	Activity	Total Expenditure	
1.	Amount to be deposited under Greening Punjab Mission Fund through concerned DFO	Rs. 22 lakhs	
The Project Proponent shall complete the implementation of the activity prescribed in the AEA plan as above within one year.			
2.7	The entire cost of the environmental management plan will continue to be borne by the project proponent throughout the life of the Project.		

3. Green Belt

S. No	EC Conditions
3.1	The project proponent shall submit the progress of developing the green belt in the six-monthly compliance report.
3.2	“Green belt” shall be developed in an area of 4631.1 Sqm (equal to 33.95% of the plant area) with native tree species in accordance with SEIAA guidelines. Total 695 tall saplings (minimum 8 feet height) of indigenous species such as Neem, Drek, Kusum, Kadam, Banyan, Peepal, Amaltas, Arjun, Chakarasia etc will be planted.
3.3	The Project Proponent shall develop a green belt in 33.95% of the total land area with native tree species (having canopy type structure and especially trees, and not grass) before the completion of the project. The greenbelt shall inter alia cover the entire periphery of the unit. The canopy trees shall also be planted around the parking area to provide shade to the parked vehicles.
3.4	Plantation activities should be commenced at the earliest and completed within 1 year. Minimum 8 Feet tall plants of indigenous tree species should be planted. The proponent shall make adequate provision of funds for raising the plantation and subsequent maintenance for three years in the Environment Management Plan.

4. Air Quality Monitoring And Preservation

S. No	EC Conditions
4.1	The project proponent shall install 24x7 continuous emission monitoring system at the inlet as well as at the outlet (stack) of each APCD to monitor the SPM concentration with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31 st March 2012 (applicable to IF/EAF) as amended from time to time; S.O. 3305 (E) dated 7 th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specifications through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
4.2	The project proponent shall monitor fugitive emissions in the plant premises at least once every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
4.3	The project proponent shall install a system to carry out Manual Ambient Air Quality monitoring for parameters relevant to the main pollutants released (e.g. PM ₁₀ and PM _{2.5} in reference to PM emission, and SO ₂ and NO _x in reference to SO ₂ and NO _x 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.
4.4	The project proponent shall submit a monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/ fugitive emissions to the Regional Office of MoEF&CC, Zonal office of CPCB, and Regional Office of SPCB along with six-monthly monitoring report.
4.5	Appropriate Air Pollution Control (APC) system shall be provided for all the dust-generating points including fugitive dust from all vulnerable sources.
4.6	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
4.7	Sufficient number of mobile or stationary vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, etc. regularly.
4.8	Recycle and reuse of 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 briquetting/ agglomeration should be ensured.
4.9	The project proponent shall use leak-proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
4.10	The project proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.
4.11	The project proponent shall provide primary and secondary fume extraction systems at all melting furnaces.
4.12	Design and implementation of the ventilation system for adequate air changes as per the ACGIH document for all tunnels, motor houses, and Oil Cellars should be ensured.

5. Water Quality Monitoring And Preservation

S. No	EC Conditions
5.1	The project proponent shall monitor regularly groundwater 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 recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
5.2	Garland drains and collection pits shall be provided for each stockpile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface runoff.
5.3	The project proponent shall practice rainwater harvesting to the maximum possible extent. As an additional safety measure, the stream carrying waste water of the village shall be diverted in one corner of Phytoid plants trench (designed based on the technology developed by CSIR-NEERI's) divided into different parts, the overflow of each chamber shall be allowed to enter into another chamber which will ultimately lead to the purification of water and collected into the pond to avoid any contamination of ground water aquifer. Pond water will percolate through natural strata (without injection) to augment the ground water and remaining water shall be used for irrigation purposes by pumping method in the nearby fields.
5.4	The project proponent shall make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use, and recycling treated water.

6. Noise Monitoring And Prevention

S. No	EC Conditions
6.1	A noise level survey shall be carried out as per the prescribed guidelines and the report in this regard shall be submitted to the Regional Officer of the Ministry as a part of a six-monthly compliance report.
6.2	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during daytime and 70 dB(A) during night-time.

7. Energy Conservation Measures

S. No	EC Conditions
7.1	The project proponent shall practice hot charging of slabs and billets/blooms as far as possible.
7.2	The project proponent shall provide solar power generation on rooftops of buildings, a solar light system for all common areas, street lights, parking around the project area, and maintain the same regularly.
7.3	The project proponent shall provide LED lights in their offices and residential areas.
7.4	The Project Proponent shall practice hot charging of slabs and billets/blooms as far as possible.

8. Waste Management

S. No	EC Conditions
8.1	Used refractories shall be recycled as far as possible.
8.2	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and a Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
8.3	The waste oil, grease, and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
8.4	Kitchen waste shall be composted or converted to compost or biogas for further use.

9. Public Hearing And Human Health Issues

S. No	EC Conditions
9.1	An emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
9.2	The project proponent shall carry out heat stress analysis for the workmen who work in the high-temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of the Factory Act.
9.3	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.
9.4	Occupational health surveillance of the workers shall be done regularly and records maintained as per the Factories Act.
9.5	The project proponent shall carry out the activities apart from CER activities and spent an amount as committed during the public hearing as per the public hearing action plan.

10. Miscellaneous

S. No	EC Conditions
10.1	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.
10.2	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.
10.3	The project proponent shall upload the status of compliance of the stipulated environment clearance

S. No	EC Conditions
	conditions, including results of monitored data on their website and update the same on half-yearly basis.
10.4	The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (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.
10.5	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 the environment clearance portal.
10.6	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.
10.7	The project proponent shall inform the Regional Office of the Ministry and PPCB, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and the start of production operation by the project.
10.8	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
10.9	The project proponent shall abide by all the commitments and recommendations made in the EIA /EMP report, commitments made during Public Hearing and also that during their presentation to the SEAC and SEIAA.
10.10	No further expansion or modifications in the project shall be carried out other than those permitted in this EC without prior approval of SEIAA. In case of deviation or alterations in the project proposal from those submitted to the Ministry/SEIAA for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
10.11	The Regional Office, MoEF&CC, Chandigarh, Punjab Pollution Control Board and SEIAA/ SEAC members nominated for the purpose shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) entrusted with this monitoring by furnishing the requisite data/ information/monitoring reports.