Proceedings of 226<sup>th</sup> meeting of State Expert Appraisal Committee (SEAC) held on 06.08.2022 (Saturday) at 11:00 AM in the Room No. 311, DECC Office, MGSIPA Complex, Sector-26, Chandigarh.

Sr. No.	Name of SEAC Member	Designation in SEAC
1.	Er. Yogesh Gupta	Chairman
2.	Sh. Pardeep Garg	Member Secretary
3.	Sh. Anil Kumar Gupta	Member
4.	Sh. Satish Kumar Gupta	Member
5.	Dr. Pawan Krishan	Member (through VC)
6.	Sh. K.L Malhotra	Member
7.	Dr. Sunil Mittal	Member (through VC)

The following were present:

# Item No. 01: Confirmation of the proceedings of 225<sup>th</sup> meeting of State Level Expert Appraisal Committee held on 25.07.2022.

The proceedings of 225<sup>th</sup> meeting of State Level Expert Appraisal Committee held on 25.07.2022 were prepared and circulated through email on 29.07.2022. No Comments have been received from any of the Members. Therefore, SEAC confirmed the same.

# Item No. 02:Action taken on the proceedings of the 225th meeting of State LevelExpert Appraisal Committee held on 25.07.2022.

The action taken on the decisions of 225<sup>th</sup> meeting of State Level Expert Appraisal Committee held on 25.07.2022 has been completed. The Committee noted the same.

# Item no. 226.01: Application for obtaining Terms of Reference under the EIA notification dated 14.09.2006 for Group Housing project "Medallion" located at, Site No. 4 & 5, IT City, Sector 82-Alpha, SAS Nagar, Punjab by M/s JMT Housing Private Limited (Proposal No. SIA/PB/MIS/80175/2022).

The Project Proponent was granted Environmental Clearance under EIA notification dated 14.09.2006 by MoEF&CC vide letter no. 21-97/2020-IA-III dated 13.01.2021 for total site area of 8.61 acres having built up area 1,23,276.087 sqm consisting of 660 residential flats, 1 Club House, 30 Shops along with basketball court, tennis court, cricket practice area.

The Project Proponent was granted Consent to Establish under the provisions of the Water Act 1974 & Air Act 1981 for the construction of group housing project having residential flats @ 660 no., shops @ 30 no. & club house @ 1 no.

The Project Proponent has proposed to carryout expansion by increase in built up area from 1,23,276.087 sqm to 1,74,550.98 sqm. The said project proposed under expansion shall attract the provisions of the category 8(b) of the schedule appended with the EIA Notification dated 14.09.2006.

The Project Proponent has deposited Rs. 12,820/- (25% of the total amount required to be deposited) vide UTR no. AXSK221920013566 dated 11.07.2022 as verified by the supporting staff of SEIAA.

The Project Proponent undertake that the information given in the application are true to the best of his knowledge & belief and no facts have been concealed thereof. Further, he is aware that in case, if any information submitted was found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at their risk and cost.

# Deliberations during 226<sup>th</sup> meeting of SEAC held on 06.08.2022.

The meeting was attended by the following:

- (i) Sh. Sukhpreet Singh, authorized signatory, on the behalf of Project Proponent.
- (ii) Mrs. Jyoti Rani, EC Coordinator M/s Eco Paryavaran Laboratories & Consultant Private Limited.

SEAC allowed the Environmental Consultant of the Project Proponent to present the salient features of the project. He, thereafter, presented the case as under:

Sr.	Description	Details
No.		
1	Basic Details	
1.1	Name of Project & Project Proponent:	Expansion of Group Housing project namely "Medallion" by M/s JMT Housing Pvt. Ltd.

1.2	Proposal:	SIA/PB/MIS/80175/2022
1.3	Location of Project:	Located at Site No. 4 & 5, IT City, Sector 82-
		Alpha, S.A.S. Nagar (Mohali), Punjab.
1.4	Details of Land area & Built up area:	Total Site Area = 8.61 acres (34,843.378 m <sup>2</sup> )
		Built-up Area = 1,74,550.98 m <sup>2</sup>
1.5	Category under EIA notification dated	The project falls under S.No. 8(b) - 'Township
	14.09.2006	and Area Development' as the built-up area of
		the project is 1,74,550.98 sq. m.
1.6	Cost of the project	Rs. 150 Crores for expansion
2.	Site Suitability Characteristics	
2.1	Whether project is suitable as per the	Environmental Clearance had already been
	provisions of Master Plan:	granted for total land area of 8.61 acres.
		Further, Consent to Establish under the Water
		Act 1974 & Air Act already granted which was
		valid up to 27.06.2022.
2.2	Whether supporting document submitted in	The land was allotted by GMADA vide Memo
	favour of statement at 2.1, details thereof:	No. 22335 dated 17.05.2018 for the total land
	(CLU/building plan approval status)	area measuring 4.04 acres and Memo No.
		EO/2019/26102 dated 02.05.2019 for the total
		land area measuring 4.57 acres. The copies of
		the allotment letters submitted.
3	Forest, Wildlife and Green Area	
3.1	Whether the project required clearance	No forest land is involved in the project.
	under the provisions of Forest Conservations	Undertaking regarding the same is enclosed
	Act 1980 or not:	with the application.
3.2	Whether the project required clearance	Project is not covered under PLPA Act, 1900.
	under the provisions of Punjab Land	
	Preservation Act (PLPA), 1900.	
3.3	Whether project required clearance under	Not applicable. Wildlife clearance is not
	the provisions of Wildlife Protection Act 1972	required.
	or not:	
3.4	Distance of the project from the Critically	The nearest critical polluted area is Ludhiana
	Polluted Area.	which is approx. 82 km from project location.
3.5	Whether the project falls within the influence	No
	of Eco-Sensitive Zone or not.	
3.6	Green area requirement and proposed No. of	Total green area: 9,216.51 sq.m.
	trees:	Proposed trees to be planted: 440 trees
	Configuration & Population	
4.	configuration & ropulation	
<b>4.</b> 4.1	Proposal & Configuration	

				Type 1	(4 BHK)	1
	T-1	2 Stilt to 24 <sup>th</sup> Floor		Туре 2	(4 BHK)	43
				Pent	House	2
				Type 1	(4 BHK)	1
	T-2	2 Stilt to 24 <sup>th</sup> Floor		Type 2	(4 ВНК)	43
				Pent	House	2
				Type 1	(4 ВНК)	1
	T-3	2 Stilt to 24 <sup>th</sup> Floor		Type 2	(4 ВНК)	43
				Pent	House	2
	τ.			3 BHK	(Mini)	88
	T-4	2 Stilt to 24 <sup>th</sup> Floor		Pent	House	4
	TC	2 Stilt to 24 <sup>th</sup> Floor		3 E	нк	88
	T-5	2 Stilt to 24 <sup>m</sup> Floor		Pent House		4
	Т-6	2 Stilt to 24 <sup>th</sup> Floor		3 ВНК	(Mini)	88
	0-1	2 Still to 24° Floor		Pent	Pent House 4 3 BHK 88	
	T-7	2 Stilt to 24 <sup>th</sup> Floor		3 E	внк	88
	1-7	2 5000 24 11001		Pent	House	4
	T-8	2 Stilt to 24 <sup>th</sup> Floor		3 E	нк	88
		2 5000 24 11001		Pent	House	4
	Т-9	2 Stilt to 24 <sup>th</sup> Floor		3 E	внк	88
	1-9			Pent	House	4
					Total Flats	690 Flats
	Club House	G+3			-	1 no.
	Commercial Shops	G			-	47 no.
	Basement Stores	В			-	47 no.
4.2	Population details		Ex	isting	Proposed	Total
				.96	484	4,980 Persons
5	Water		1			,
5.1	Total Water requirement	nt	54	1 KLD		
5.2	Total fresh water requir			8 KLD		
5.3	Source:			MADA supply	or Borewells	;

5.4	the Co	her Permissi action/supply of ompetent Autho <i>s thereof</i>	the fresh wa		Wa wa: Apj 440	iter Supply, S ste disposal. Co proval for abst D.8 KLD has bo	MADA has been ewerage Conn py of the same traction of grou een obtained f on letter issue	ection, Solid submitted. und water @ from PWRDA;		
					-	omitted.	on letter issue	U DY PVVKDA		
5.5	Total	wastewater gen	eration:			3 KLD				
5.5		ment methodolo			433	3 KLD of sewag	e will be genera	ated from the		
	(STP c	apacity, technol	ogy & compon	ents)	pro	project which will be treated in proposed STP of				
					сар	apacity 500 KLD.				
5.6	Treate	ed wastewater fo	or flushing pur	pose:	183	3 KLD				
5.7		ed wastewater	•	area in	Summer: 51 KLD					
	summ	er, winter and r	ainy season:			nter: 17 KLD				
					Monsoon: 5 KLD					
5.8		ition/Disposal	of excess	treated		•	osed to GMADA	Sewer as per		
		water.			allo	otment letter.				
5.9	Cumulative Details:									
	Sr.	Total water	Total	Treated		Flushing	Green area	Into sewer		
	No.	Requirement	wastewater	wastewa	ter	water	requirement			
			generated			requirement				
	1.	541 KLD	433 KLD	424 KLD		183 KLD	Summer: 51	Summer:		
							KLD	190 KLD		
							Winter: 17	Winter:		
							KLD	224 KLD		
							Monsoon: 5	Monsoon:		
							KLD	236 KLD		
5.10	Rain v	vater harvesting	proposal:				narging will be c			
							arging pits to co	mpensate the		
6					abs	straction of grou	und water.			
6	Air						10/10 10 750 10	/A 1.2 500		
6.1	Detail	s of Air Polluting	g machinery:			G sets (2x630) A each capacity	KVA, 4x 750 KV	va and 2x500		
6.2	Meas	ures to be	adopted to	contain		· · ·	י ווֹסְped with acoו	ustic anclosura		
0.2		ulate emission/A	•	contain			e generation a			
	purcie						oper dispersion	•		
7	Waste	e Management				<u> </u>				
7.1		quantity of solid	waste generat	tion	1,7	25 kg/day				
7.2		s of manageme					ste will be com	posted by use		
		-								
	waste	(Mechanical Co	mposter/Com	post pits)	of	Mechanical Co	omposters of t	total capacity		

		authorized dumping site. The recyclable waste shall be sold to resellers.
7.5	Details of management of Hazardous Waste.	Hazardous waste in the form of used oil from DG set will be generated which will be sold to authorized vendors as per The Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 and its amendments.
8	Energy Saving & EMP	
8.1	Power Consumption:	3,848.63 KW
8.2	Energy saving measures:	<ul> <li>LEDs have been proposed to be used instead of CFLs.</li> <li>Solar panels have been proposed on the roof top of the project.</li> </ul>
8.3	Details of activities under Environment Management Plan.	Details regarding Environmental Management Plan will be submitted with EIA Report.

During meeting, the Committee asked the Project Proponent to present the breakup of total built up area of 1,23,276.087 sqm as per earlier Environmental Clearance granted to the project and as per the application proposal for expansion in built up area to 1,74,550.98 sqm. In this regard, the Project Proponent has presented the details as under:

	As	per EC gra	anted	Total	After Exp	ansion	Construction
Tower	Floors	Units	Built-up Area	Floors	Units	Built-up Area	Status
T-1	Stilt to 22 <sup>nd</sup> Floor	44	10,973.701	B+ 2 Stilt to 24 <sup>th</sup> Floor	46	12,074.342	No construction started
T-2	Stilt to 22 <sup>nd</sup> Floor	44	11,043.834	B+ 2 Stilt to 24 <sup>th</sup> Floor	46	12,109.729	Only excavation for foundation done
T-3	Stilt to 22 <sup>nd</sup> Floor	44	10,973.701	2 Stilt to 24 <sup>th</sup> Floor	46	12,047.042	Constructed till 10 <sup>th</sup> floor
T-4	Stilt to 22 <sup>nd</sup> Floor	88	12,070.85	2 Stilt to 24 <sup>th</sup> Floor	92	13,564.396	Raft completed; plinth beam work is in progress
T-5	Stilt to 22 <sup>nd</sup> Floor	88	15,944.925	2 Stilt to 24 <sup>th</sup> Floor	92	17,607.88	Constructed till 3 <sup>rd</sup> floor
T-6	Stilt to 22 <sup>nd</sup> Floor	88	12,070.85	2 Stilt to 24 <sup>th</sup> Floor	92	13,564.396	Constructed till 11 <sup>th</sup> floor
T-7	Stilt to 22 <sup>nd</sup> Floor	88	15,944.925	2 Stilt to 24 <sup>th</sup> Floor	92	17,607.88	Constructed till 12 <sup>th</sup> floor

T-8	Stilt to 22 <sup>nd</sup> Floor	88	15,944.925	B+ 2 Stilt to 24 <sup>th</sup> Floor	92	17,607.88	Only excavation for foundation done
T-9	Stilt to 22 <sup>nd</sup> Floor	88	15,944.925	B+ 2 Stilt to 24 <sup>th</sup> Floor	92	17,635.772	No construction started
Club House	S+G+1+ toilets	1 No.	1,360.101	G+3	1 nos.	2,191.68	No construction started
Commercial Shops/Stores	G	30 No.	1,003.353	G	47 nos.	1,563.575	30 nos. of shops have been constructed
Basement Area	-	-	-	В	-	12,248.751	No construction started

The Project Proponent, thereafter, submitted the building plan approved by GMADA based on which the earlier Environmental Clearance was granted to the promoter company. He also submitted the acknowledgment of the letter submitted to GMADA for approving the revised plan based on which the fresh proposal for carrying out expansion has been proposed. The Committee took these documents on record.

After detailed deliberations, SEAC decided to the forward the application to SEIAA for grant of Terms of Reference for carrying out expansion under EIA notification dated 14.09.2006 for construction of Group Housing project "Medallion" located at, Site No. 4 & 5, IT City, Sector 82-Alpha, SAS Nagar, Punjab by increasing the built-up area from 1,23,276.087 sqm to 1,74,550.98 sqm.

# I. Project Details

- i. Need and benefits of the project.
- ii. Submit data for built-up area for each building, the use and occupancy classification in line with NBC 2016 also to be indicated [for differential functional requirements].
- iii. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.

# II. Land Environment

i. Examine details of land use as per Master Plan and land use around 10 km radius of the

project site. Analysis should be made based on latest satellite imagery for land use with raw images. Check on flood plain of any river.

## III. Land acquisition and R&R

i. Submit details of environmentally sensitive places, land acquisition status, rehabilitation of communities/villages and present status of such activities.

## IV. Environmental Monitoring and Management

- ii. Examine baseline environmental quality along with projected incremental load due to the project.
- iii. Environmental data to be considered in relation to the project development would be
   (a) land, (b) groundwater, (c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations, (g) socio economic and health.
- iv. Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of EP Act.
- v. Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
- vi. Possible carbon footprint contribution from each activities and mitigation measures proposed shall be included as part of Environment Management Plan.

## V. Drainage

i. Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area. Any obstruction of the same by the project.

## VI. Forest

- i. Submit the details of the trees to be felled for the project, if any .
- ii. Submit the present land use and permission required for any conversion such as forest, agriculture etc.

### VII. Water Environment

i. Ground water classification as per the Central Ground Water Authority.

## VIII. Water Management

- i. Examine the details of Source of water, water requirement, use of treated waste water and prepare a water balance chart.
- ii. Rain water harvesting proposals should be made with due safeguards for ground water quality.
- iii. Maximize recycling of water and utilization of rain water. Examine details.
- iv. Examine soil characteristics and depth of ground water table for rainwater harvesting.
- v. Permission from CGWA for abstraction of groundwater, if any, including dewatering during basement excavation.

## IX. Waste Management

- i. Examine details of solid waste generation treatment and its disposal.
- ii. Construction & Demolition Waste Management Plan shall be prepared as part of EMP providing details of demolition activities involved along with quantification and disposal mechanism.

# X. Energy Requirements

- i. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project.
- ii. Examine and submit details of use of solar energy and alternative source of energy to reduce the fossil energy consumption. Energy conservation and energy efficiency.
- DG sets are likely to be used during construction and operational phase of the project. Emissions from DG sets must be taken into consideration while estimating the impacts on air environment.

# XI. Road and Traffic

- i. Examine road/rail connectivity to the project site and impact on the traffic due to the proposed project. Present and future traffic and transport facilities for the region should be analysed with measures for preventing traffic congestion and providing faster trouble-free system to reach different destinations in the city.
- ii. A detailed traffic and transportation study should be made for existing and projected passenger and cargo traffic.
- iii. Examine the details of transport of materials for construction which should include source and availability.

# XII. Disaster Management Plan

i. Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster. This should cover details of vulnerabilities due to natural and manmade hazards (earthquake, flooding, cyclone, landslides, fire etc.) and details of disaster mitigation efforts for buildings and infrastructure through structural sufficiency and Fire and Life Safety compliance in line with National Building Code NBC, 2016.

# XIII. Court Cases

ii. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.

## XIV. Miscellaneous

i. Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website "http://moef.nic.in/Manual/Townships".

# Item no. 226.02: Application for Environmental Clearance under the EIA notification dated 14.09.2006 for construction of residential township at Sector 97, 106 & 107, SAS Nagar, Punjab by M/s Unitech Limited (Proposal No. SIA/PB/MIS/61949/2019).

The Project Proponent was granted Environmental Clearance by MoEF&CC vide letter no. 21-660/2006-IA.III dated 30.07.2007 under EIA notification dated 14.09.2006 for the development of residential colony in the plot area of 135.6 hectare (335 acres). Area under plotted development is 51.86 Ha. Area under group housing is 8.28 Ha. Area under Green belt is 9.33 Ha.

The Project Proponent was granted Terms of Reference by SEIAA Punjab vide letter no. SEIAA/2020/1986 dated 08.09.2020 for carrying out modernization by decrease in total plot area to 284.04 acres having built up area of 1375958.676 sqm.

The Project Proponent has submitted the Final EIA report along with the application for consideration of the grant of Environmental Clearance for carrying out modernization. The Project Proponent has submitted Form-1, 1A along with the requisite documents as per the checklist approved by SEIAA. The Project Proponent has deposited Rs. 10,38,624 vide DD No. 150297 dated 09.03.2022 as verified by the supporting staff.

The Project Proponent undertake that the information given in the application are true to the best of his knowledge & belief and no facts have been concealed thereof. Further, he is aware that in case, if any information submitted was found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at their risk and cost.

The Project Proponent has submitted a copy of certified compliance report issued by Regional Office of MoEF&CC vide letter no. 5-88/2007-RO(NZ)/725 dated 21.10.2020.

Punjab Pollution Control Board vide letter no. 2429 dated 20.04.2022 has sent the latest construction status report with details as under:

"The Project site was visited by the officer on 21/3/2022 and it was observed as under:

- 1) No construction work has been started of the revised component.
- 2) The project proponent has provided STPs of capacity 150 KLD and 75 KLD.
- 3) The domestic waste from the residential houses is collected by a third-party vendor. However, the project proponent has not provided mechanical composter for composting of bio-degradable component.
- 4) NO MAH industry/ cement plant/ grinding unit/ rice sheller/ saila plant/ stone crunching/ screening cum washing unit / hot mic plant/ brick kiln within a radius of 500 m from the boundary of the proposed site of the project. No Air polluting industry is located within 100 mtr of the proposed site. A marriage palace M/s Mystic Arc is located in Sector- 109, Mohali which is at a distance of around 300 mtr from sector- 106. Therefore, the site of

the project is conforming to the sitting guidelines laid down by the Govt. of Punjab, Department of Science Technology and Environment vide order dated 25/7/2008 as amended on 30/10/2009.

It is pertinent to mention here that the proposed site is situated within the jurisdiction of M.C, Mohali/GMADA. However, the STP installed by GMADA authorities is not adequate to cater the quantity of additional effluent of this project. However, the upgradation of exiting STP installed by GMADA authorities is yet to be made. Moreover, the project proponent has not submitted the alternate proposal for mode of disposal."

Sr.	Description	Details
No.		
1	Basic Details	
1.1	Name of Project & Project Proponent:	Modernization of Residential Township located at sector- 97, 106 & 107, Mohali, Punjab by M/s Unitech Limited
1.2	Proposal No.:	SIA/PB/MIS/61949/2019
1.3	Location of Project:	Located at sector- 97, 106 & 107, Mohali, Punjab
1.4	Details of Land area & Built up area:	Total Site Area = 1149470.114 m <sup>2</sup> (284.04 Acres) Built-up Area = 13,75,958.676 m <sup>2</sup>
1.5	Category under EIA notification dated 14.09.2006	The project falls under S.No. 8(b) - 'Township and Area Development' as the built-up area of the project is <b>1375958.676 m</b> <sup>2</sup>
1.6	Cost of the project	Estimated cost of project will be Rs 371.33 crores (For Modernization- Rs 196.2 Crores)
2.	Site Suitability Characteristics	
2.1	Whether project is suitable as per the provisions of Master Plan:	Yes, the existing site is allocated for residential use as per the Master Plan of SAS Nagar, 2031. the same is enclosed with the application.
2.2	Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)	A copy of permission for CLU of the land measuring 218 acres falling in Sector 97, 106 & 107, SAS Nagar issued by Department of Housing and Urban Development vide letter no. 490

Summary of the case as per the application proposal is as under:

		dated 16.01.2007 for residential purpose submitted.
		A copy of permission for CLU of the land measuring 60.04 acres issued by Department of Town and Country Planning Punjab vide letter no. 6506 CTP (PB) SP-432R dated 06.08.2008 for residential purpose submitted. It has been mentioned in the CLU that the area of 6 acres proposed for acquisition shall be issued separately.
3	Forest, Wildlife and Green Area	
3.1	Whether the project required clearance under the provisions of Forest Conservations Act 1980 or not:	No forest land is involved in the project. A self- declaration in this regard submitted.
3.2	Whether the project required clearance under the provisions of Punjab Land Preservation Act (PLPA), 1900.	Project is not covered under the PLPA Act, 1900.
3.3	Whether project required clearance under the provisions of Wildlife Protection Act 1972 or not:	Not applicable. Wildlife clearance is not required.
3.5	Whether the project falls within the influence of Eco-Sensitive Zone or not.	No
3.6	Green area requirement and proposed No. of trees:	Total green area of 347855.638 m <sup>2</sup> (30.26 % of plot area) i.e. 73,114.620 m <sup>2</sup> (Mandatory green) & 274,741.018 m <sup>2</sup> (Other green area) will be developed after modernisation. The Green Area of 11.761 Acres has already been developed.
		Total No. of trees required = Total plot area/80 = 11,49,470.114/80= 14368 Nos.
		>> Total No of trees proposed = 14427 Nos.
		» No of trees already planted = 2627
		» No of shrubs already planted = 347
•	Configuration & Down Letter	» No of trees yet to be planted = 11800
4.	Configuration & Population	

Particular	As per prev	/ious EC	Total after me	odernization	Impact		
	Hectare	Acres	Hectare	Acres			
Plots	51.86	128.09	44.23	109.3	Decrease		
Group Housing	8.28	20.4516	8.43	20.823	Increase		
Commercial	4.69	11.5843	2.99	7.4	Decrease		
EWS	6.92	17.0924	5.52	13.65	Decrease		
Institutional	10.5	25.93201	10.49	25.932	No Change		
Utility	-	-	3.14	7.759	Increase		
STP			0.41	1.02	Increase		
Green area	9.3	22.971	34.78	85.9	Increase		
Road and Open area	44.04	108.8282	32.43	80.089	Decrease		
Total	135.6	335	114.95 (142.2	2) 284.04 (351.8)	Decrease		
Area under Plot	-		822120.1	865773.78	5773.78		
Built up area brea		C1.					
Particulars(m <sup>2</sup> )	Already constructed		To be Constructed		Total after modernization		
	,				284486.39		
Group Housing	49,993.54	•	234492.85				
Commercial	-		100647.396	100647.396			
Institutional	-		125051.11	125051.11			
Total	93647.22		1282311.456	13,75,958.676	13,75,958.676		
The total populat under:			n is estimated as 32	1561. The details a	re tabulate		
Population deta	ils (After M	odernizatio	n)	1			
Population deta Description	ils (After M	odernizatio	n)	Populatio	on		
	-	odernizatio	n)	Population 5840	on		
Description	-	odernizatio	n)		on		
Description Group Housing F	Residents	odernizatio	n)	5840	on		
Description Group Housing F Plots residents	Residents & Plots staff		n)	5840 17520	on		
Description Group Housing F Plots residents Group Housing 8	Residents & Plots staff & Plot Visito	rs	n)	5840 17520 350	on		
Description Group Housing F Plots residents Group Housing & Group Housing &	Residents & Plots staff & Plot Visito	rs	n)	5840 17520 350 2110	DN		

			C			
Particulars	Population		Summer	r requireme	nt in KID	
Fatticulars	Total	LPCD	Demand	Fresh	Flushing	Wast
	Total		Demand	Tresh	Trasining	wate
Resident GH	5840	200	1168	905	263	
Staff GH	100	45	5	3	2	
Visitors GH	610	15	9	3	6	
Resident	17520	200	3504	3504	0	
plots						
Staff Plots	250	45	11	11	0	
Visitors	1500	15	23	23	0	1
Plots						
Commercial	1024	45	46	26	20	
and						
Institutional						
Staff						
Commercial	4717	15	71	24	47	
and						
Institutional						
Visitors						
Sub Total	31561		4837	4499	339	
				3598	339	3937
			Summer			
Gardening	347855.638		1739			
	sqm					
Cooling			100			10
Misc			10			8
Total Water			6686			
requirement						
Total Waste			3955			3955
water						
generation						
Total fresh wat	er requiremen	it:	4499 KLC	)		

5.3	Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N)				Yes, acknowledgement of the application submitted to PWRDA for abstraction of 4499 KLD of ground water submitted.					
	Details thereof									
5.4	Total	wastewater gen	eration:		3955	KLD				
5.5	Treatment methodology: (STP capacity, technology & components)				In-house Modular STP of combined capacity 4490 KLD (1890 KLD STP in Sector 97 & 106 & STP in Sector 107 of capacity 2600 KLD) (75 KLD & 150 KLD- Existing -SAFF Technology & 4265 KLD- Proposed-MBBR technology).					
5.6	Treated wastewater for flushing purpose:					(LD				
5.7	Utilisation/Disposal of excess treated wastewater.					Summer: 1570 KLD Winter: 2283 KLD Rainy: 2649 KLD				
5.8	Cumu	lative Details:								
	Sr.	Total water	Total	Treate	d	Flushing	Green area	Into		
	No.	Requirement	wastewater generated	waste	water	water requirement	requirement	sewer		
	1.	6686 KLD	3955 KLD	3758 K	LD	339 KLD	Summer: 1739 KLD Winter: 1044 KLD	Summer: 1570 KLD Winter: 2283 KLD		
							Monsoon: 696 KLD	Monsoon: 2649 KLD		
5.10	Rain water harvesting proposal:				Ground water recharging will be done by 5 total 24 Nos. of rainwater harvesting pits (Existing- 10 & Proposed- 14) to compensate the abstraction of ground water.					

6	Air						
6.1	Details	of Air Polluting machinery:	DG sets of 2x62.5 kVA (Already Existing) & 5x1010 kVA (Proposed)				
6.2		Measures to be adopted to contain particulate emission/Air Pollution			DG sets will be equipped with acoustic enclosure to minimise noise generation and stack height of 6 m for DG set of 5x1010 kVA & in-built stack for 2x62.5 kVA for proper dispersion.		
7	Waste	Management					
7.1	Total c	uantity of solid waste generation	on	After mode	ernization: 11744 k	g/day	
7.2	Details of management and disposal of solid waste       (Mechanical Composter/Compost pits)			Organic W		treated in 5 nos. of ecyclable & Plastic sed Vendors.	
7.3	Details of management of Hazardous Waste.			Hazardous waste in the form of used oil from DG set will be generated which will be sold to authorised vendors as per The Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 and its amendments.			
8	Energy	Saving & EMP					
8.1	Power	Consumption:		34000 (1000 kVA already connected) (Source: Punjab State Power Corporation Ltd.)			
8.2	Energy saving measures:			<ul> <li>Total solar power to be installed(solar energy per tower*no. of tower) = 2.5 X 16 = 40 KW.</li> <li>LEDs have been proposed to be used instead of CFLs.</li> </ul>			
8.3	Details of activities under the Environment Management Plan. Capital Cost:						
	Sr. No.	Description	Alrea	ndy Spent	Proposed Total Cost	Total cost in (Lacs)	
	1.	Landscaping	60		83	143	
	2.	STP	92		400	492	
	3.	DG Stack & Acoustic Treatment	4		16	20	
	4.	Solid Wate management	12		80	92	

5.	RWH	160	60	220		
6.	Miscellaneous	19.3	77.1	96.4		
	Total	347.30	716.1	1063.4		
ecur Sr. No.	ring Cost: Description		Rs. in	Lacs/year		
1.	Landscaping		30	30		
2.	Water management (ST	TP & RWH)	25			
3.	Air Management		5	5		
4.	Environment Managem	ient	2.5	2.5 10		
5.	Solid Wate Managemer	nt	10			
6.	Miscellaneous			2		
	Total	74 5 1	74.5 Lacs/year			

During meeting, the Committee noted that the Project Proponent vide letter dated 05.08.2022 informed that due to non-availability of the technical experts, it is not possible to attend the meeting of SEAC scheduled to be held on 06.08.2022 as such a request was made by him to consider the case in the next meeting.

The Committee, considered the project, in pursuance of OM issued by MoEF&CC vide no. 22-35/2020-IA.III dated 18.11.2020, wherein it has been mentioned that all projects, placed in the agenda, should be considered by the EAC notwithstanding the non-attendance of the Project Proponent or his consultant in the EAC meeting to make a presentation.

The Committee further observed that the Project Proponent has submitted the request letter for providing exemption in the funds to be allocated under CER activities due to the financial crunch being faced by the promoter company. In this regard, the Committee observed that the proposed project is very big in size with projected population as 31561 persons, total built up area as 13,75,958.676 sqm, total water demand as 4499 KLD, waste water generation as 3955 KLD & solid waste generation as 11744 kg/day and has significant impact on the environment. As such the exemption in the funds to be allocated under CER activities in Environment Management Plan (EMP) cannot be given.

Further, the Committee was apprised regarding the latest decision taken in the 14th joint meeting of SEIAA/SEAC held on 13.07.2022 that the project proponent shall allocate appropriate funds in lieu of CER activities in the EMP of the project. This expenditure would be in addition to the other statutory components of the EMP and would be incurred proportionally to the amount spent on the construction activities inter alia on the following activities:

a) Development of Mini Forests (Nanak Bagchi), raising of Avenue Plantations & Plantations in public/community areas.

b) Rejuvenation of Village Ponds

c) Development of Infrastructure for utilization of treated effluent of STPs.

d) Provision of solar panels in the Govt./ Municipal / other public schools, hospitals and dispensaries, etc.

e) Rainwater harvesting in Public Buildings

f) Alternatives to Single Use Plastic.

g) Solid Waste Management

h) Other activities relating to amelioration of Air, Water and Soil pollution as prescribed in the applicable District Environment Plan (DEP)

i) Activities as proposed by the Project Proponent / their accredited consultants for the amelioration of Air, Water, and Soil pollution on the basis of field surveys and approved by SEIAA / SEAC."

The Committee accordingly considered the proposal of the applicant and observed that there are lot of gaps in the information submitted by the Project Proponent and made the following observations:

- The Project Proponent shall submit clarification pertaining to decrease in the land area from 335 acres to 284.04 acres based on which the Environmental Clearance for modernization has been sought. Further, the details of 50.96 acres (335-284.04) are to be provided.
- 2. The Project Proponent shall submit the revised calculation pertaining to the sum of total land area mentioned in various components under the head i.e. (total after modernization).
- 3. The Project Proponent shall submit the details pertaining to No. of Plots, No. of Dwelling Units in Group Housing, No. of Shops/SCOs in Commercial Component of the project and Institutional Components as per the earlier Environmental Clearance granted to the Project viz-a-viz modernization proposal.
- 4. The Project Proponent shall submit component wise built-up area details (FAR & Non-FAR separately) proposed to be constructed as per earlier EC granted to the project viz-a-viz modernization proposal.
- 5. The Project Proponent shall submit revised calculation after considering the factors of 5.5, 1.8 & 0.5 ltr/sqm/day while calculating the utilization of treated wastewater for green area.
- 6. The Project Proponent shall submit the alternate proposal for utilization of the excess treated waste water within the project premises, till permission for disposing treated water in the sewer of GMADA is obtained.
- 7. The Project Proponent shall submit the basis for estimating the population for various components of the project.
- 8. The Project Proponent shall submit the adequate proposal for management of wet and dry component of Solid Waste and submit the solid waste management plan by earmarking the location of the dedicated area for SWM.
- 9. The Project Proponent shall allocate appropriate funds in lieu of Corporate Environmental Responsibility (CER) activities in the Environment Management Plan (EMP), in addition to other

statuary component of the EMP, to be incurred proportionally to the amount spent on the construction activities, inter alia on the following activities:

- (i) Development of Mini Forests (Nanak Bagchi), raising of Avenue Plantations and Plantations in public/community areas
- (ii) Rejuvenation of Village Ponds
- (iii) Development of Infrastructure for utilization of treated effluent of STPs
- (iv) Provision of solar panels in the Government / Municipal / other public schools, hospitals and Dispensaries, etc.
- (v) Rainwater harvesting in Public Buildings
- (vi) Alternatives to Single Use Plastic
- (vii) Solid waste Management
- (viii) Other activities relating to amelioration of Air, Water and Soil pollution as prescribed in the applicable District Environment Plan
- (ix) Activities as proposed by the Project Proponent / their accredited consultants for the amelioration of Air, Water, and Soil pollution on the basis of field surveys and approved by SEIAA / SEAC

The Committee decided to defer the case till the receipt of reply of the above-mentioned observations made by the Committee.

# Item No. 226.03: Application for obtaining Terms of Reference for steel manufacturing unit at Village Bhagwanpura, Tehsil-Dehlon, District Ludhiana, Punjab by M/s SRV Steel Private Limited. (Proposal No. SIA/PB/IND/81418/2022).

The industry is an existing steel manufacturing unit and had already obtained Consent to Operate under the provisions of the Air Act 1981 & Water Act 1974, which is valid up to 30.06.2025. The Consents have issued for the manufacturing of MS Ingots @ 78 MTD (27,300 TPA) at village Bhagwanpur, Tehsil Dehlon, District Ludhiana, Punjab.

The industry has applied for obtaining Terms of Reference for carrying out expansion by manufacturing of steel ingots/billets @56000 TPA of Steel Billets/Ingots. The industry has proposed to replace existing 01 no. Induction Furnace of capacity 7 TPH to 01 no. of Induction furnace of capacity 10 TPH and one concast. The project is covered under category 3(a) of the schedule appended with the EIA notification dated 14.09.2006. The total cost of the project including expansion is Rs. 8.98 Crore.

The industry has submitted Form-1 and Pre-Feasibility Report along with other relevant documents on Parivesh Portal. The industry has deposited Rs. 22,450/- through NEFT No. 235094095 dated 19.07.2022 as verified by the supporting staff of SEIAA.

The Project Proponent undertake that the information given in the application are true to the best of his knowledge & belief and no facts have been concealed thereof. Further, he is aware that in case, if any information submitted was found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at their risk and cost.

# Deliberations during 226<sup>th</sup> meeting of SEAC held on 06.08.2022.

The meeting was attended by the following:

- (i) Sh. Ravinder Kumar, General Manager, M/s SRV Steel Private Limited.
- (ii) Sh. Sandeep Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.

SEAC allowed the Environmental Consultant of the Project Proponent to present the salient features of the project. He, thereafter, presented the case as under:

Sr.	Description	Details		
No.				
1.	Online Proposal No.	SIA/PB/IND/81418/2022		
2.	Name and Location of	M/s SRV Steels Pvt. Ltd. located at Village- Bhagwanpura, Tehsil-		
	the project	Dehlon, District Ludhiana, Punjab.		
3.	In case of expansion	Existing (MS Ingots) @ 78 MTD (27,300 TPA)		
	projects, whether	Proposed (steel ingots/billets) @56000 TPA		

	granted EC earlier, if Yes,	
	then provide its details	The production capacity exceeds the 30,000 TPA as such the said project now attracts the provisions of category 3(a) of the schedule appended with the EIA notification dated 14.09.2006
4.	Nature of project (FreshEC/ECforExpansion/New)	Expansion
5.	a) Category b) Activity (As per schedule appended to EIA Notification, 2006 as amended time to time.)	<ul> <li>(a) B</li> <li>(b) Metallurgical Industries (ferrous &amp; non-ferrous) (8), Schedule 3(a) as per EIA notification-2006.</li> </ul>
6.	Whether project falls within 5km from the boundary of critically polluted area (Yes/No)	The site of the industry is located at a distance of 6.1 KM from the MC limits of Ludhiana.
7.	Whether the industry required clearance under the provisions of Forest Conservation Act 1980 or not.	No land of the falls under the purview of Forest Conservation Act 1980 or PLPA 1900. A self-declaration in this regard submitted.
8.	Whether industry falls within the protected areas notified under Wildlife Protection Act 1972 or not.	Not applicable, as there is no Wildlife protected area falls within 5km or project site.
9.	Whether the industry falls within the ambit of Eco-sensitive areas or not.	Not applicable, as there is no eco-sensitive area falls within 5km or project site.
10.	Inter-State boundaries and International boundaries	Not applicable, as there is no Inter-State boundary or international boundary falls within 5km or project site.
11.	Existing production Capacity (TPA)	Steel Ingots/billets- 27,300 TPA
12.	Undertaking to affect that project is neither located near to PLPA area nor fall in the PLPA area	The project site is neither located near to PLPA area nor fall in PLPA area.

Classifica	ation/Land use	The site falls in Industry zone as per Master Plan of Ludhiana.								
pattern as per Master										
Plan										
Project Area Details:										
S. No.	Details	Existing Land	Proposed	Total land after						
			Additional Land	Expansion						
1.	Plot Area (in sqm)	6070	Nil	6070						
Raw Mat	Raw Material requirement as per following format:									
S. No.	Raw Material	Existing (TPA)	Proposed (TPA)	After Expansion (TPA)						
1.	MS Scrap, Cl,	30,450	31,200	61,650						
	Sponge Iron,									
	Ferro Alloys									
Production Capacity as per following format:										
S. No.	Product name	Existing (TPA)	Proposed (TPA)	After Expansion (TPA)						
1.	Steel	27,300	28,700	56,000						
	Ingots/billets,									
Details of major productive machinery/plant										
S. No.	Particulars	Existing	Proposed	After Expansion						
1.	Induction Furna	· ·	1X10 TPH,	1X10 TPH						
2.	Concast	Nil	01 No.	01 No.						
	Plan Project A S. No. 1. Raw Mat S. No. 1. Producti S. No. 1. Details o S. No.	Plan         Project Area Details:         S. No.       Details         1.       Plot Area (in sqm)         Raw Material requirement a         S. No.       Raw Material         1.       MS Scrap, Cl,         Sponge Iron,       Ferro Alloys         Production Capacity as per       S. No.         S. No.       Product name         1.       Steel         Ingots/billets,       Ingots/billets,         Details of major productive         S. No.       Particulars	PlanProject Area Details:S. No.DetailsExisting Land1.Plot Area (in sqm)6070Raw Material requirement as per following formS. No.Raw MaterialExisting (TPA)1.MS Scrap, Cl, Sponge Iron, Ferro Alloys30,450Production Capacity as per following format:S. No.Product nameExisting (TPA)1.Steel Ingots/billets,27,300Details of major productive machinery/plantS. No.ParticularsExisting	Plan         Project Area Details:         S. No.       Details       Existing Land       Proposed         1.       Plot Area (in sqm)       6070       Nil         Raw Material requirement as per following format:       S. No.       Raw Material       Existing (TPA)       Proposed (TPA)         1.       MS Scrap, Cl,       30,450       31,200         Sponge Iron,       Ferro Alloys       30,450       31,200         Production Capacity as per following format:         S. No.       Product name       Existing (TPA)       Proposed (TPA)         1.       Steel       27,300       28,700         1.       Steel       27,300       28,700         Ingots/billets,       Ingots/billets,       Proposed       Proposed         1.       Induction Furnace       1X7TPH (to       1X10 TPH,						

	5. No	. Descrip	otion		Existing deman	g water d (KLD)	Proposed w demand (KLD		Total wate demand (KLD)
1	1.	Domes deman		water	1.0 KLD		1.0 KLD		2.0 KLD
2	2.	Cooling water)	g (ma	akeup	2.0	KLD	7.0 KLD		9.0 KLD
		Tot	al		3.0	KLD	8.0 KLD		11.0KLD
S	Sourc	ces of water:							
5	5. No	. Purpose	es			Source	of water		
1	1.	Domest	ic			Own tu	bewell		
2	2.	Make-u cooling	dema	and for Own tube		bewell	ewell		
17	3.	. Green area water demand				Treated waste water			
Details of Effluent									
	Sr. No.	Details	Existing Quanti (KLD)	-	Expecte expansi (KLD)		Details of Effluent Con		ng & propose evice
i	)	Industrial Effluent	ndustrial Nil		Nil				
i	i)	Domestic 0.8 Effluent			1.6		Will be treated in STP of 6 KL capacity. Treated water will b reused in plantation.		
D	etail	s of Emission	s (After ex	pansio	n)				
	Sr. No.	Source	Capacity (TPH)		nimney eight n)		ils of existi ition Control D	•	proposed A
i	)	Induction Furnace	Induction 1X10 TPH, 3		D Side		e, ID Fan (Offli	•	rk Arrestor, Ba aning pulsejet ba
D	etail	s of Hazardo	us waste ar	nd its d	isposal (/	After expa	insion)		
	Sr. No.	Hazardous Waste Catego				A) Disposal	arran	gement	

	1.	Gas Cl Residue dust)- Bag filte	eaning (APCD er	35.1	0.3	3	Sent to TSDF site/Madhav Alloys		
	2.	Used Oil (kl/a	nnum)	5.1	0.	05 kl/annum	Used as Lubricant within the industry/sent to authorized recyclers.		
22.	Solid waste generation and its dispos				osal (Aft	er expansion)	· · · · · · · · · · · · · · · · · · ·		
	Sr.	Solid Waste	Quar	ntity (T	PD)	Disposal arrangement			
	No.		(Afte	er Expai	nsion)				
	(i)	Slag	8.8			Sent to cement plant/Tile manufacturers for final disposal			
23.	-	Energy Requirements (After expansion)			7000 K	W			

During meeting, the Committee observed that the proposed industrial activity attracts the provisions of the General Conditions applicable to category 3(a) of the schedule appended with the EIA notification dated 14.09.2006. In this regard, the industry submitted the drawing earmarking the location of the industry w.r.t distance from MC limits of Ludhiana. As per the said drawing, the site of the industry is located at a distance of 6.1 KM from the MC limits of Ludhiana.

Further, the industry vide letter dated 06.08.2022 informed that all the Conditions stipulated under General Conditions applicable to category 3(a) of the schedule appended with EIA notification dated 14.09.2006 does not satisfy w.r.t proposed site of the industry. The industry further undertakes that 15% of the total plot area shall be developed into green area by planting trees and remaining green belt will be developed in other land owned by project proponent at a distance of 250m from project site.

The Committee observed that the industry falls in the industrial zone as per the Master Plan of Ludhiana. After detailed deliberations, SEAC decided to recommend the case to SEIAA to approve & issue the Terms of Reference (ToR) to the industry M/s SRV Steel Private Limited for preparing Environmental Impact Assessment (EIA) report by carrying out public consultation as required under the EIA notification dated 14.09.2006:

# Standard ToR-

- 1. Introduction
- i. Background about the project
- ii. Need of the project
- iii. Purpose of the EIA study
- iv. Scope of the EIA study

# **Project description**

# A. Site Details

- i. Location of the project site covering village, Taluka/Tehsil, District and State.
- ii. Site accessibility
- iii. Adigital toposheet in pdf or shape file compatible to google earth of the study area of radius of 10km and site location preferably on 1:50,000 scale. (including all eco-sensitive areas and environmentally sensitive places).
- iv. Latest High-resolution satellite image data having 1m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc., along with delineation of plant boundary co-ordinates. Area must include at least 100m all around the project location.
- v. Environment settings of the site and its surrounding along with map.
- vi. A list of major industries with name, products and distance from plant site within study area (10km radius) and the location of the industries shall be depicted in the study area map.
- vii. In case if the project site is in vicinity of the water body, 50 meters from the edge of the water body towards the site shall be treated as no development/construction zone. If it's near the wetland, Guidelines for implementing Wetlands (Conservation and Management) Rules, 2017 may be followed.
- viii. In case if the project site is in vicinity of the river, the industry shall not be located within the river flood plain corresponding to one in 25 years flood, as certified by concerned District Magistrate/Executive Engineer from State Water Resources Department (or) any other officer authorized by the State Government for this purpose as per the provisions contained in the MoEF&CC Office Memorandum dated 14/02/2022.
- ix. Type of land, land use of the project site.
- x. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process as per the MoEF&CC O.M. dated 7/10/2014 shall be furnished.
- xi. Engineering layout of the area with dimensions depicting existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.

# B. Forest and wildlife related issues (if applicable):

- i. Status of Forest Clearance for the use of forest land shall be submitted.
- ii. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife if the project site located within notified Eco-Sensitive Zone, 10km radius of national park/sanctuary wherein final ESZ notification is not in place as per MoEF&CC Office Memorandum dated 8/8/2019.
- iii. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, Eco-sensitive Zone and Eco-sensitive areas, the project proponent shall submit the map duly authenticated by Divisional Forest Officer showing the distance between the project site and the said areas.
- iv. Wildlife Conservation Plan duly authenticated by the Competent Authority of the State Government for conservation of Schedule I fauna, if any exists in the study area.

# C. Salient features of the project

- i. Products with capacities in **Tons per Annum** for the proposed project.
- ii. If expansion project, status of implementation of existing project, details of existing/proposed

products with production capacities in Tons per Annum.

- iii. Site preparatory activities.
- iv. List of raw materials required and their source along with mode of transportation.
- v. Other than raw materials, other chemicals and materials required with quantities and storage capacities.
- vi. Manufacturing process details along with process flow diagram of proposed units.
- vii. Consolidated materials and energy balance for the project.
- viii. Total requirement of surface/ ground water and powerwith their respective sources, status of approval.
- ix. Water balance diagram
- x. Details of Emission, effluents, hazardous waste generation and mode of disposal during construction as well as operation phase.
- xi. Man-power requirement.
- xii. Cost of project and scheduled time of completion.
- xiii. Brief on present status of compliance (Expansion/modernization proposals)
- a. Cumulative Environment Impact Assessment for the existing as well as the proposed expansion/modernization shall be carried out.
- b. In case of ground water drawl for the existing unit, action plan for phasing out of ground water abstraction in next three years except for domestic purposes and shall switch over to 100 % use of surface water from nearby source.
- c. Copy of <u>all</u> the Environment Clearance(s) including Amendments thereto obtained for the project from MoEF&CC/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30<sup>th</sup> May, 2012 on the status of compliance of conditions stipulated in <u>all</u> the existing environment clearances including amendments shall be provided.
- d. In case the existing project has not obtained Environment Clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the Regional Office of the SPCB shall be submitted.

# D. Description of the Environment

- v. Study period
- vi. Approach and methodology for data collection as furnished below.

Attributes	Samplin	g	Remarks
	Network	Frequency	
A. Air Environment			

<ul> <li>Micro-Meteorological</li> <li>Wind speed (Hourly)</li> <li>Wind direction</li> <li>Dry bulb temperature</li> <li>Wet bulb temperature</li> <li>Relative humidity</li> <li>Rainfall</li> <li>Solar radiation</li> <li>Cloud cover</li> <li>Environmental Lapse Rate</li> </ul>	Minimum 1 site in the project impact area	1 hourly continuous	<ul> <li>IS 5182 Part 1-20</li> <li>Site specific primary data is essential</li> <li>Secondary data from IMD, New Delhi</li> <li>CPCB guidelines to be considered.</li> </ul>
Pollutants • PM2.5 • PM10 • SO2 • NOx • CO • HC • Other parameters relevant to the project and topography of the area	At least 8-12 locations	As per National Ambient Air Quality Standards, CPCB Notification.	<ul> <li>Sampling as per CPCB guidelines</li> <li>Collection of AAQ data (except in monsoon season)</li> <li>Locations of various stations for different parameters should be related to the characteristic properties of the parameters.</li> <li>The monitoring stations shall be based on the NAAQM standards as per GSR 826(E) dated 16/11/2009 and take into account the predominant wind direction, population zone and sensitive receptors including reserved forests,</li> <li>Raw data of all AAQ measurement for 12 eeks of all stations as</li> </ul>

Attributes	Sampling	-	Remarks		
	Network	Frequency	_		
			per frequency given in the NAAQM Notification of		
			16/11/2009 along with min., max.,		
			average and 98% values for each		
			of the AAQ parameters from data		
			of all AAQ stations should be		
			provided as an annexure		
			to the EIA Report.		
B. Noise	Last 0.42		1		
Hourly equivalent noise     levels	least 8-12 locations	er CPCB norms			
C. Water					
ameters for water quality		•	ed and analyzed as per:		
<ul> <li>pH, temp, turbidity, magnesium hardness, total alkalinity, chloride,</li> </ul>	Standard method	•	ng and testing of Industrial effluents of water and wastewater analysis Association.		
sulphate, nitrate,					
uoride, sodium, potassium, salinity					
<ul> <li>Total nitrogen, total phosphorus, DO, BOD, COD, Phenol</li> </ul>					
<ul> <li>Heavy metals</li> </ul>					
<ul> <li>Total coliforms, faecal coliforms</li> </ul>					
<ul> <li>Phyto plankton</li> </ul>					
Zoo plankton					
For River Bodies	Surface water	• Yield of water se	ources to be measured during		
<ul> <li>Total Carbon</li> </ul>	quality of	critical season			
• рН	the nearest		odology for collection of surface		
<ul> <li>Dissolved Oxygen</li> </ul>	River (60m	water (BIS stand	dards)		
Biological Oxygen	upstream and downstream				
Demand	and other surface				
• Free NH4	water				
• Boron					
Sodium Absorption Ratio					
Electrical					

Attributes	Sampling Network Frequency		Remarks			
Conductivity	bodies					
For Ground Water	• Ground water monitoring data should be collected at minimum of 8 locations (from existing wells /tube wells/existing current records) from the study area and hall be included.					
D. Traffic Study						
Type of vehicles						
• Frequency of vehicles						
for transportation of						
materials						
Additional traffic due						
to proposed project						
Parking arrangement						
E. Land Environment						
Soil	Soil samples be collect	ed as per BIS specific	cations			
Particle size						
distribution						
Texture						
• рН						
Electrical						
conductivity						
Cation exchange						
capacity						
Alkali metals						
Sodium Absorption						
Ratio (SAR)						
Permeability						
Water holding						
capacity						
Porosity						
and use/Landscape						
<ul> <li>Location code</li> </ul>						
<ul> <li>Total project area</li> </ul>						
Topography						
<ul> <li>Drainage (natural)</li> </ul>						
• Cultivated, forest,						
plantations, water						
bodies, roads and						
settlements						
E. Biological Environment						

Attributes Sampling		5	Remarks		
	Network	Frequency			
<ul> <li>Aquatic</li> <li>Primary productivity</li> <li>Aquatic weeds</li> <li>Enumeration of phyto plankton, zoo plankton and benthos</li> <li>Fisheries</li> <li>Diversity indices</li> <li>Trophic levels</li> <li>Rare and endangered species</li> <li>Marine Parks/ Sanctuaries/ closed areas /coastal regulation zone (CRZ)</li> <li>Terrestrial</li> <li>Vegetation-species list, economic importance, forest produce, medicinal value</li> <li>Importance value index (IVI) of trees</li> <li>Fauna</li> <li>Avi fauna</li> <li>Rare and endangered species</li> <li>Sanctuaries / National park / Biosphere reserve</li> <li>Migratory routes</li> </ul>	Network         Frequency           • Detailed description of flora and fauna (terrestrial and aquatic) e the study area shall be given with special reference to rare, endeendangered species. Indicator species which indicate ecologe environment degradation should be identified and included t state whether the proposed project would result in to any advert on any species.           • Samples to collect from upstream and downstream of discharge nearby tributaries at downstream, and also from dug wells activity site.           • For forest studies, direction of wind should be considered while a forests.           • Secondary data to collect from Government offices, NGOs, p literature.		cial reference to rare, endemic and es which indicate ecological and identified and included to clearly ould result in to any adverse effect d downstream of discharge point, nd also from dug wells close to nould be considered while selecting		
socio-economic					
<ul> <li>Demographic structure</li> </ul>	sampling metho	d.			
<ul> <li>Infrastructure resource base</li> <li>Economic resource base</li> <li>Health status: Morbidity pattern</li> <li>Cultural and aesthetic attributes</li> </ul>	<ul> <li>Secondary data</li> </ul>		ionnaire statistical hard books, topo sheets, cords available with Govt. Agencies		

Attributes	Sampling		Remarks
	Network	Frequency	
<ul> <li>Education</li> </ul>		·	

- vii. Interpretation of each environment attribute shall be enumerated and summarized as given below:
  - Ambient air quality
  - Ambient Noise quality
  - Surface water quality
  - Ground water quality
  - Soil quality
  - Biological Environment
  - Land use
  - Socio-economic environment
  - E. Anticipated Environment Impacts and mitigation measures (In case of expansion, cumulative impact assessment shall be carried out)
- i. Identification of potential impacts in the form of a **matrix** for the construction and operation phase for all the environment components

Activity	Environment	Ecological	Socio-economic
Construction phase			
Operation phase			

- ii. Impact on ambient air quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- a. Construction phase
- b. Operation phase
  - Details of stack emissions from the existing as well as proposed activity.
  - Assessment of ground level concentration of pollutants from the stack emission based on AQIP Modelling The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any along with wind rose map for respective period
  - Impact on ground level concentration, under normal, abnormal and emergency conditions. Measures to handle emergency situations in the event of uncontrolled release of emissions.
- iii. Impact on ambient noise quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - a. Construction phase
  - b. Operation phase
- iv. Impact on traffic (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - a. Construction phase
  - b. Operation phase

- v. Impact on soil quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - a. Construction phase
  - b. Operation phase
- vi. Impact on land use (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - a. Construction phase
  - b. Operation phase
- vii. Impact on surface water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - a. Construction phase
  - b. Operation phase
- viii. Impact on ground water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - a. Construction phase
  - b. Operation phase
- ix. Impact on terrestrial and aquatic habitat (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - a. Construction phase
  - b. Operation phase
- x. Impact on socio-economic environment (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - a. Construction phase
  - b. Operation phase
- xi. Impact on occupational health and safety (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - a. Construction phase
  - b. Operation phase

### 2. Analysis of Alternatives (Technology & Site)

- i. No project scenario
- ii. Site alternative
- iii. Technical and social concerns
- iv. Conclusion

### 3. Environmental Monitoring Program

- i. Details of the Environment Management Cell
- ii. Performance monitoring schedule for all pollution control devices shall be furnished.
- iii. Corporate Environment Policy
- a. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- b. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environment or forest norms / conditions? If so, it may be detailed in the EIA.
- c. What is the hierarchical system or Administrative order of the company to deal with the environment issues and for ensuring compliance with the environment clearance conditions?

Details of this system may be given.

- d. Does the company have system of reporting of non-compliances / violations of environment norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report
- iv. Action plan for post-project environment monitoring matrix:

Activity	Aspect	Monitoring Parameter	Location	Frequency	Responsibility	
Construction phase						
Operation phase						

## 4. Additional Studies

- i. Public consultation details (Entire proceedings as separate annexurealong with authenticated English Translation of Public Consultation proceedings).
- ii. Summary of issues raised during public consultation along with action plan to address the same as per MoEF&CC O.M. dated 30/09/2020

S	Physical activity and action plan		Year of implementation (Budget in INR)			Total Expenditu
	Name of the Activity	Physical Targets	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	re (Rs. in Crores)

- iii. Risk assessment
- Methodology
- Hazard identification
- Frequency analysis
- Consequence analysis
- Risk assessment outcome
- iv. Emergency response and preparedness plan

### 5. Project Benefits

- i. Environment benefits
- ii. Social infrastructure
- iii. Employment and business opportunity
- iv. Other tangible benefits

### 6. Environment Cost Benefit Analysis

- i. Net present value
- ii. Internal rate of return
- iii. Benefit cost ratio

iv. Cost effectiveness analysis

## 7. Environment Management Plan (Construction and Operation phase)

- i. Air quality management plan
- ii. Noise quality management plan
- iii. Solid and hazardous waste management plan
- iv. Effluent management plan
- v. Storm water management plan
- vi. Rain water harvesting plan
- vii. Occupational health and safety management plan
- viii. Green belt development plan
- ix. Socio-economic management plan
- x. Wildlife conservation plan (In case of presence of schedule I species)
- xi. Total capital cost and recurring cost/annum for environment pollution control measures shall be included.

### 8. Conclusion of the EIA study

**9.** In addition to the above, any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.

### **SPECIAL CONDITIONS-**

- 1. For Large ISPs, a 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site. MRL details of project site and RL of nearby sources of water shall be indicated.
- 2. Plan for the implementation of the recommendations made for the steel plants in the CREP guidelines.
- 3. Plan for solid wastes utilization
- 4. Plan for utilization of energy in off gases (coke oven, blast furnace)
- 5. System of coke quenching adopted with justification.
- 6. Details on environmentally sound technologies for recycling of hazardous materials, as per CPCB Guidelines, may be mentioned in case of handling scrap and other recycled materials.
- 7. Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
- 8. Details on toxic content (TCLP), composition and end use of slag.
- 9. 100 % dolo char generated in the plant shall be used to generate power.
- 10. Fourth Hole fume extraction system shall be provided for SAF.WHR system shall be installed to recover sensible heat from flue gases of EAF. Provision for installation of jigging and briquetting plant to utilise the fines generated in the process.
- 11. No tailing pond is permitted for Iron ore slimes. Dewatering and filtration system shall be

provided.

12. Emission/effluent norms as per G.S.R 894 (E) dated 4/12/2019.

# Item No. 226.04: Application for Terms of Reference for steel rolling unit at Village Barmalipur and Jaspalon, Doraha Khanna Road, Tehsil Khanna, District Ludhiana, Punjab by M/s Arora Iron and Steel Rolling Mills Private Limited Unit-II, (Proposal No. SIA/PB/IND/81453/2022).

The industry is a new unit and has applied for obtaining Terms of Reference for establishment of steel rolling unit for production of 2,10,000 TPA of MS Rounds/Bars/Flats/Squares by installing 2 no. of rolling mills each of capacity 20 Ton/hr or 300 TPD. The project is covered category 3(a) of the schedule appended with the EIA notification dated 14.09.2006. The cost of the project is Rs. 47.8 Crore.

The industry was granted Consent to Establish under the provisions of the Air Act 1981 & Water Act 1974, which is valid up to 18.05.2023 for establishment of the steel rolling mill for manufacturing of MS Rounds/Bars/Flats/Squares@ 2,10,000 TPA.

The industry has submitted Form-1 and Pre-Feasibility Report along with other relevant documents through Parivesh Portal. The industry has deposited Rs. 1,19,500/- through NEFT No. N2029222054593279 dated 28.07.2022 as checked & verified by supporting staff SEIAA.

The Project Proponent undertake that the information given in the application are true to the best of his knowledge & belief and no facts have been concealed thereof. Further, he is aware that in case, if any information submitted was found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at their risk and cost.

# Deliberations during 226<sup>th</sup> meeting of SEAC held on 06.08.2022.

The meeting was attended by the following:

- (i) Sh. Raminderpal, Director, M/s Arora Iron and Steel Rolling Mills Private Limited Unit II.
- (ii) Sh. Sandeep Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.

SEAC allowed the Environmental Consultant of the Project Proponent to present the salient features of the project. He, thereafter, presented the case as under:

Sr. No	Description	Details
1.	Online Proposal No.	SIA/PB/IND/81453/2022
2.	Name and Location of the project	M/s Arora Iron and Steel Rolling Mills Private Limited Unit -II located at Village- Barmalipur and Jaspalon, Doraha- Khanna, Tehsil Payal District- Ludhiana, Punjab

3.		e of expansion projects, whether d EC earlier, if Yes, then provide its	Not applicab	le, as it	t's a new project.
4.			<ul> <li>(a) B</li> <li>(b) Metallurgical Industries (ferrous &amp; non-ferrous) Schedule</li> <li>3(a) as per EIA notification-2006.</li> </ul>		
5.	from	ner project falls within 5km the boundary of critically ed area (Yes/No)			dustry is located at a distance of 20 Km polluted areas of Ludhiana.
6.	cleara	ner the industry required nce under the provisions of Conservation Act 1980 or not.		on Act	falls under the purview of Forest 1980 or PLPA 1900. A self-declaration mitted.
7.	protec	ner industry falls within the cted areas notified under fe Protection Act 1972 or not.	Not applica within 5km		there is no Wildlife protected area falls oject site.
8.		ner the industry falls within the of Eco-sensitive areas or not.	Not applicable, as there is no eco-sensitive area falls within 5km or project site.		
9.	Inter-S Intern	State boundaries and ational boundaries	Not applicable, as there is no Inter-State boundary or international boundary falls within 5km or project site.		
10.	Master		The site falls in Industrial zone as per master plan of Ludhiana.		
11.	Project S. No.	t <b>Area Details:</b> Details Plot Area (in sqm	)		Proposed Land 31746 sqm
12.		laterial requirement as per followin	-		51/40 34111
	S. No.		Proposed (TPA)		
	1.	Billets/Ingots			2,22,000TPA
13.	Produc	tion Capacity as per following form	nat:		
	S.	Product name		Propo	osed (TPA)
	No.			•	
	1.	MS Rounds/ Bars/Flat/Squares			2,10,000TPA
14.		of major productive machinery/pl	ant		
	S. No.				Proposed
	1.	2 no. rolling mill to be installed w	vith an indepe	ndent	Capacity of each rolling mill is 20 TPH or
15.	Water	Reverberatory Furnace Requirements & its source:			300 TPD
15.	water	nequirements & its source.			
	DES	CRIPTION	PROPOSED		

	Dom	omestic				4.2			
	Mak	eup water in cooli	ng towe	er				32.0	
	Tota	I				36.2 KLD			
	Sourc	es of water:							
	S. Purposes No.				Source of water				
	1.	Domestic				0	wn tubewe	211	
	2.	Make-up water o	demand	for cool	ling	0	wn tubewe	211	
	3.	Green area wate	r dema	nd		Т	reated was	te water	
.6.	Details	of Effluent							
	Sr. No.	Details		pected LD)	Efflu	uent	Details of Device	existing & proposed Effluent Control	
	i)	Industrial Effluent	Ni	 					
	ii)	Domestic Effluent	3.3	36 KLD		Will be treated in Septic tank. Treated wa be reused in plantation.			
.7.	Details	of Emissions							
	Sr. No.	Source	Capaci (TPH)	ty	Chimne Height (m)	ey		of existing & proposed Air Pollution I Device	
	i)	2 no. rolling mill to be installed with an independent Reverberatory Furnace	Capaci each mill is or 300	rolling 20 TPH	30		Alkali s	crubber	
.8.	Details	of Hazardous was	te and i	ts dispos	sal				
	Sr. No.	Hazardous Wast	e	Catego	ory	Quar (TPA (Afte expa	)	Disposal arrangement	
	1.	Gas Cleaning R (APCD dust)- Bag		35.1		0.002	24	Sent to common <b>TSDF at</b> Nimbuan, Dera Bassi for final disposal	

	2.	Used Oil (kl/annum)	5.1	0.22 kl/annum		Used indust recycle			within autho	the rized
	3.	Scrap	-	18.15 T	PD	Will be	e solo	l to open m	arket	
19.	. Energy Requirements (After expansion)			7000 K\	N					

During meeting, the Committee perused the OM issued by MoEF&CC dated 20.07.2022, wherein it has been mentioned that in exercise of the powers conferred by section 3 of Environment (Protection) Act 1986, the Central Govt. hereby directs that all the standalone re-rolling units or cold rolling units, which are in existence and in operation as on the date of this notification, with valid Consent to Establish & Consent to Operation from concerned State Pollution Control Board shall apply online for the grant of Terms of Reference (ToR) followed by Environment Clearance and the said units shall be granted standard Terms of Reference as per item 3(a) of the said notification and shall be exempted from the requirement of public consultation.

The Committee further observed that the proposed industrial activity attracts the provisions of the General Conditions applicable to category 3(a) of the schedule appended with the EIA notification dated 14.09.2006. In this regard, the industry vide letter dated 06.08.2022 informed that all the Conditions mentioned under General Conditions applicable to category 3(a) of the schedule appended with EIA notification dated 14.09.2006 does not satisfy w.r.t proposed site of the industry. The industry further apprised the Committee that it shall develop 34% of the green area within the industry.

The Committee observed that the industry falls in the industrial zone as per the Master Plan of Ludhiana. After detailed deliberations, SEAC decided to recommend the case to SEIAA to approve & issue the following Terms of Reference (ToR) to the industry M/s Arora Iron and Steel Rolling Mills Pvt Ltd for preparing Environmental Impact Assessment (EIA) report:

# Standard ToR-

- 1. Introduction
- i. Background about the project
- ii. Need of the project
- iii. Purpose of the EIA study
- iv. Scope of the EIA study

# **Project description**

# A. Site Details

i. Location of the project site covering village, Taluka/Tehsil, District and State.

- ii. Site accessibility
- iii. Adigital toposheet in pdf or shape file compatible to google earth of the study area of radius of 10km and site location preferably on 1:50,000 scale. (including all eco-sensitive areas and environmentally sensitive places).
- iv. Latest High-resolution satellite image data having 1m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc., along with delineation of plant boundary co-ordinates. Area must include at least 100m all around the project location.
- v. Environment settings of the site and its surrounding along with map.
- vi. A list of major industries with name, products and distance from plant site within study area (10km radius) and the location of the industries shall be depicted in the study area map.
- vii. In case if the project site is in vicinity of the water body, 50 meters from the edge of the water body towards the site shall be treated as no development/construction zone. If it's near the wetland, Guidelines for implementing Wetlands (Conservation and Management) Rules, 2017 may be followed.
- viii. In case if the project site is in vicinity of the river, the industry shall not be located within the river flood plain corresponding to one in 25 years flood, as certified by concerned District Magistrate/Executive Engineer from State Water Resources Department (or) any other officer authorized by the State Government for this purpose as per the provisions contained in the MoEF&CC Office Memorandum dated 14/02/2022.
- ix. Type of land, land use of the project site.
- x. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process as per the MoEF&CC O.M. dated 7/10/2014 shall be furnished.
- xi. Engineering layout of the area with dimensions depicting existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.

# B. Forest and wildlife related issues (if applicable):

- i. Status of Forest Clearance for the use of forest land shall be submitted.
- ii. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife if the project site located within notified Eco-Sensitive Zone, 10km radius of national park/sanctuary wherein final ESZ notification is not in place as per MoEF&CC Office Memorandum dated 8/8/2019.
- iii. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, Eco-sensitive Zone and Eco-sensitive areas, the project proponent shall submit the map duly authenticated by Divisional Forest Officer showing the distance between the project site and the said areas.
- iv. Wildlife Conservation Plan duly authenticated by the Competent Authority of the State Government for conservation of Schedule I fauna, if any exists in the study area.

## C. Salient features of the project

- i. Products with capacities in Tons per Annum for the proposed project.
- ii. If expansion project, status of implementation of existing project, details of existing/proposed products with production capacities in Tons per Annum.
- iii. Site preparatory activities.

- iv. List of raw materials required and their source along with mode of transportation.
- v. Other than raw materials, other chemicals and materials required with quantities and storage capacities.
- vi. Manufacturing process details along with process flow diagram of proposed units.
- vii. Consolidated materials and energy balance for the project.
- viii. Total requirement of surface/ ground water and powerwith their respective sources, status of approval.
- ix. Water balance diagram
- x. Details of Emission, effluents, hazardous waste generation and mode of disposal during construction as well as operation phase.
- xi. Man-power requirement.
- xii. Cost of project and scheduled time of completion.
- xiii. Brief on present status of compliance (Expansion/modernization proposals)
- e. Cumulative Environment Impact Assessment for the existing as well as the proposed expansion/modernization shall be carried out.
- f. In case of ground water drawl for the existing unit, action plan for phasing out of ground water abstraction in next three years except for domestic purposes and shall switch over to 100 % use of surface water from nearby source.
- g. Copy of <u>all</u> the Environment Clearance(s) including Amendments thereto obtained for the project from MoEF&CC/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30<sup>th</sup> May, 2012 on the status of compliance of conditions stipulated in <u>all</u> the existing environment clearances including amendments shall be provided.
- In case the existing project has not obtained Environment Clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the Regional Office of the SPCB shall be submitted.
- D. Description of the Environment
- i. Study period
- ii. Approach and methodology for data collection as furnished below.

Attributes	Samplin	g	Remarks
	Network Frequency		
A. Air Environment			

<ul> <li>Micro-Meteorological</li> <li>Wind speed (Hourly)</li> <li>Wind direction</li> <li>Dry bulb temperature</li> <li>Wet bulb temperature</li> <li>Relative humidity</li> <li>Rainfall</li> <li>Solar radiation</li> <li>Cloud cover</li> <li>Environmental Lapse Rate</li> </ul>	Minimum 1 site in the project impact area	1 hourly continuous	<ul> <li>IS 5182 Part 1-20</li> <li>Site specific primary data is essential</li> <li>Secondary data from IMD, New Delhi</li> <li>CPCB guidelines to be considered.</li> </ul>
Pollutants • PM2.5 • PM10 • SO2 • NOx • CO • HC • Other parameters relevant to the project and topography of the area	At least 8-12 locations	As per National Ambient Air Quality Standards, CPCB Notification.	<ul> <li>Sampling as per CPCB guidelines</li> <li>Collection of AAQ data (except in monsoon season)</li> <li>Locations of various stations for different parameters should be related to the characteristic properties of the parameters.</li> <li>The monitoring stations shall be based on the NAAQM standards as per GSR 826(E) dated 16/11/2009 and take into account the predominant wind direction, population zone and sensitive receptors including reserved forests,</li> <li>Raw data of all AAQ measurement for 12 eeks of all stations as</li> </ul>

Attributes	Sampling	-	Remarks		
	Network	Frequency	_		
			per frequency given in the NAAQM Notification of		
			16/11/2009 along with min., max.,		
			average and 98% values for each		
			of the AAQ parameters from data		
			of all AAQ stations should be		
			provided as an annexure		
			to the EIA Report.		
B. Noise	Last 0.42		1		
Hourly equivalent noise     levels	least 8-12 locations	er CPCB norms			
C. Water					
ameters for water quality		•	ed and analyzed as per:		
<ul> <li>pH, temp, turbidity, magnesium hardness, total alkalinity, chloride,</li> </ul>	Standard method	•	ng and testing of Industrial effluents of water and wastewater analysis Association.		
sulphate, nitrate,					
uoride, sodium, potassium, salinity					
<ul> <li>Total nitrogen, total phosphorus, DO, BOD, COD, Phenol</li> </ul>					
<ul> <li>Heavy metals</li> </ul>					
<ul> <li>Total coliforms, faecal coliforms</li> </ul>					
<ul> <li>Phyto plankton</li> </ul>					
Zoo plankton					
For River Bodies	Surface water	• Yield of water se	ources to be measured during		
<ul> <li>Total Carbon</li> </ul>	quality of	critical season			
• рН	the nearest		odology for collection of surface		
<ul> <li>Dissolved Oxygen</li> </ul>	River (60m	water (BIS stand	dards)		
Biological Oxygen	upstream and downstream				
Demand	and other surface				
• Free NH4	water				
• Boron					
Sodium Absorption Ratio					
Electrical					

Attributes	Sampling		Remarks		
	Network	Frequency			
Conductivity	bodies				
For Ground Water	<ul> <li>Ground water monitoring data should be collected at minimum of 8 locations (from existing wells /tube wells/existing current records) from the study area and hall be included.</li> </ul>				
D. Traffic Study					
• Type of vehicles					
• Frequency of vehicles					
for transportation of					
materials					
Additional traffic due					
to proposed project					
Parking arrangement					
E. Land Environment					
Soil	soil samples be collect	ed as per BIS specific	cations		
Particle size					
distribution					
Texture					
• рН					
Electrical					
conductivity					
Cation exchange					
capacity					
Alkali metals					
Sodium Absorption					
Ratio (SAR)					
Permeability					
Water holding					
capacity					
Porosity					
_and use/Landscape					
<ul> <li>Location code</li> </ul>					
<ul> <li>Total project area</li> </ul>					
Topography					
<ul> <li>Drainage (natural)</li> </ul>					
• Cultivated, forest,					
plantations, water					
bodies, roads and					
settlements					
E. Biological Environment					

Attributes	Sampling		Remarks
	Network	Frequency	
<ul> <li>Aquatic</li> <li>Primary productivity</li> <li>Aquatic weeds</li> <li>Enumeration of phyto plankton, zoo plankton and benthos</li> <li>Fisheries</li> <li>Diversity indices</li> <li>Trophic levels</li> <li>Rare and endangered species</li> <li>Marine Parks/ Sanctuaries/ closed areas /coastal regulation zone (CRZ)</li> <li>Terrestrial</li> <li>Vegetation-species list, economic importance, forest produce, medicinal value</li> <li>Importance value index (IVI) of trees</li> <li>Fauna</li> <li>Avi fauna</li> <li>Rare and endangered species</li> <li>Sanctuaries / National park / Biosphere reserve</li> <li>Migratory routes</li> </ul>	<ul> <li>Detailed descrip the study area s endangered spe environment de state whether th on any species.</li> <li>Samples to colle nearby tributari activity site.</li> <li>For forest studie forests.</li> </ul>	ition of flora and fauna hall be given with speci- ecies. Indicator speci- egradation should be in he proposed project w ect from upstream an ies at downstream, a es, direction of wind sh	a (terrestrial and aquatic) existing in cial reference to rare, endemic and es which indicate ecological and identified and included to clearly ould result in to any adverse effect d downstream of discharge point, nd also from dug wells close to nould be considered while selecting ernment offices, NGOs, published
. socio-economic			
Demographic structure	sampling metho	od.	oportionate, stratified and random
<ul> <li>Infrastructure</li> <li>resource base</li> <li>Economic resource base</li> <li>Health status:</li> <li>Morbidity pattern</li> <li>Cultural</li> </ul>	<ul> <li>Secondary data</li> </ul>		onnaire statistical hard books, topo sheets, cords available with Govt. Agencies
aesthetic attributes			

Attributes	Samplin	g	Remarks
	Network Frequency		
<ul> <li>Education</li> </ul>			

- iii. Interpretation of each environment attribute shall be enumerated and summarized as given below:
  - Ambient air quality
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- E. Anticipated Environment Impacts and mitigation measures (In case of expansion, cumulative impact assessment shall be carried out)
- xii. Identification of potential impacts in the form of a **matrix** for the construction and operation phase for all the environment components

Activity	Environment	Ecological	Socio-economic
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Operation phase			

- xiii. Impact on ambient air quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- c. Construction phase
- d. Operation phase
  - Details of stack emissions from the existing as well as proposed activity.
  - Assessment of ground level concentration of pollutants from the stack emission based on AQIP Modelling The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any along with wind rose map for respective period
  - Impact on ground level concentration, under normal, abnormal and emergency conditions. Measures to handle emergency situations in the event of uncontrolled release of emissions.
- xiv. Impact on ambient noise quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - c. Construction phase
  - d. Operation phase
- xv. Impact on traffic (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - c. Construction phase
  - d. Operation phase

- xvi. Impact on soil quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - c. Construction phase
  - d. Operation phase
- xvii. Impact on land use (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - c. Construction phase
  - d. Operation phase
- xviii. Impact on surface water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - c. Construction phase
  - d. Operation phase
- xix. Impact on ground water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - c. Construction phase
  - d. Operation phase
- xx. Impact on terrestrial and aquatic habitat (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - c. Construction phase
  - d. Operation phase
- xxi. Impact on socio-economic environment (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - c. Construction phase
  - d. Operation phase
- xxii. Impact on occupational health and safety (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - c. Construction phase
  - d. Operation phase

## 2. Analysis of Alternatives (Technology & Site)

- i. No project scenario
- ii. Site alternative
- iii. Technical and social concerns
- iv. Conclusion

#### 3. Environmental Monitoring Program

- i. Details of the Environment Management Cell
- ii. Performance monitoring schedule for all pollution control devices shall be furnished.
- iii. Corporate Environment Policy
- e. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- f. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environment or forest norms / conditions? If so, it may be detailed in the EIA.
- g. What is the hierarchical system or Administrative order of the company to deal with the environment issues and for ensuring compliance with the environment clearance conditions?

Details of this system may be given.

- h. Does the company have system of reporting of non-compliances / violations of environment norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report
- iv. Action plan for **post-project environment monitoring matrix**:

Activity	Aspect	Monitoring Parameter	Location	Frequency	Responsibility			
Construction	Construction phase							
Operation	Dperation phase							

## 4. Additional Studies

- v. Public consultation details (Entire proceedings as separate annexurealong with authenticated English Translation of Public Consultation proceedings).
- vi. Summary of issues raised during public consultation along with action plan to address the same as per MoEF&CC O.M. dated 30/09/2020

s	Physical activity and action plan		Year of implementation (Budget in INR)			Total Expenditu
	Name of the Activity	Physical Targets	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	re (Rs. in Crores)

- vii. Risk assessment
- Methodology
- Hazard identification
- Frequency analysis
- Consequence analysis
- Risk assessment outcome
- viii. Emergency response and preparedness plan

## 5. Project Benefits

- i. Environment benefits
- ii. Social infrastructure
- iii. Employment and business opportunity
- iv. Other tangible benefits

## 6. Environment Cost Benefit Analysis

- i. Net present value
- ii. Internal rate of return
- iii. Benefit cost ratio

iv. Cost effectiveness analysis

# 7. Environment Management Plan (Construction and Operation phase)

- i. Air quality management plan
- ii. Noise quality management plan
- iii. Solid and hazardous waste management plan
- iv. Effluent management plan
- v. Storm water management plan
- vi. Rain water harvesting plan
- vii. Occupational health and safety management plan
- viii. Green belt development plan
- ix. Socio-economic management plan
- x. Wildlife conservation plan (In case of presence of schedule I species)
- xi. Total capital cost and recurring cost/annum for environment pollution control measures shall be included.

## 8. Conclusion of the EIA study

**9.** In addition to the above, any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.

## **SPECIAL CONDITIONS-**

- 1. For Large ISPs, a 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site. MRL details of project site and RL of nearby sources of water shall be indicated.
- 2. Plan for the implementation of the recommendations made for the steel plants in the CREP guidelines.
- 3. Plan for solid wastes utilization
- 4. Plan for utilization of energy in off gases (coke oven, blast furnace)
- 5. System of coke quenching adopted with justification.
- 6. Details on environmentally sound technologies for recycling of hazardous materials, as per CPCB Guidelines, may be mentioned in case of handling scrap and other recycled materials.
- 7. Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
- 8. Details on toxic content (TCLP), composition and end use of slag.
- 9. 100 % dolo char generated in the plant shall be used to generate power.
- 10. Fourth Hole fume extraction system shall be provided for SAF.WHR system shall be installed to recover sensible heat from flue gases of EAF. Provision for installation of jigging and briquetting plant to utilise the fines generated in the process.
- 11. No tailing pond is permitted for Iron ore slimes. Dewatering and filtration system shall be

provided.

12. Emission/effluent norms as per G.S.R 894 (E) dated 4/12/2019.