Agenda for the 129th meeting of State Level Environment Impact Assessment Authority to be held on 23.03.2018 at 10.30 AM in Committee Room, Punjab Pollution Control Board, Regional Office, Mohali.

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129.07	Application for issuance of TORs for carrying out EIA study for obtaining Environmental clearance under EIA notification dated 14.09.2006 for expansion of steel manufacturing unit by replacement/addition of induction furnaces in Village – Ambey Majra, Tehsil. - Sirhind, District Fatehgarh Sahib, Punjab by M/s Bhawani Casting (P) Limited (Proposal no SIA/PB/IND2/22237/ 2018)	66-80
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129.09	Application for obtaining ToRs for carrying out EIA study for obtaining environmental clearance under EIA notification dated 14.09.2006 for expansion of a Residential Apartment Complex namely "Jalandhar Heights-II" in the revenue estate of Village Pholriwal, Tehsil & District Jalandhar, Punjab by M/s A.G.I. Infra Limited. (Proposal no.SIA/PB/NCP/22280/2018)	96-98

Item No.129.01: Confirmation of the minutes of 128th meeting of SEIAA held on 06.03.2018.

The proceedings of 128th meeting of SEIAA held on 06.03.2018, were circulated to all concerned vide letter no. 321-22 dated 15.03.2018. No observation has been received from any of the members. As such, SEIAA may confirm the said proceedings.

Item No.128.02: Action taken on the proceedings of 128th meetings of SEIAA held on 06.03.2018.

Action on the proceedings of 128th meetings of SEIAA held on 06.03.2018 has been taken and the action taken report is placed below:-

Item No.	Subject	Decision of SEIAA taken in 128th meeting held on 06.03.2018	Action taken on the decision of 128th meeting held on 06.03.2018
128.01	Confirmation of the minutes of 127th meeting of SEIAA held on 09.02.2018.	The SEIAA confirmed the proceedings of 127th meeting of SEIAA held on 09.02.2018.	No further action is required to be taken.
128.02	Action taken on the proceedings of 126th & 127th meetings of SEIAA held on 01.02.2018 & 09.02.2018, respectively	Action on the proceedings 126th & 127th meetings of SEIAA held on 01.02.2018 & 09.02.2018 respectively was seen by the SEIAA.	No further action is required to be taken on the proceedings of 126th & 127th meetings of SEIAA held on 01.02.2018 & 09.02.2018, respectively
128.03	Application for environmental clearance under EIA notification dated 14.09.2006 for establishment of group housing project namely Marbella Grand located in IT city, Sector 82 Alpha, Mohali as Group Housing Site No.3 by M/s SRG Developers & Promoters, Bay Shop No 17, MW Market, Industrial Area Phase I, Mohali Proposal No. SIA/PB/NCP/72566/2018	The Authority decided to accept the recommendations of SEAC and grant environmental clearance.	Environmental clearance has been granted vide letter No. 329 dated 21.03.2018.
128.04:	Application for environmental clearance under EIA notification dated 14.09.2006 for establishment of group	The SEIAA decided to defer the case till such time the project proponent submits documentary proof to	The decision of SEIAA has been conveyed to the project proponent vide letter No. 338

	housing project namely Gateway of Dreams located at Village Nabha, Zirakpur, Dera Bassi,S.A.S Nagar Mohali by M/s SBP Dream City (P) Ltd., Santemajra Road, Kharar Proposal No. SIA/PB/NCP/71372/2017	prove his contention that no diversion of forest land is involved for approach to the proposed project.	dated 21.03.2018
128.05	Application for environmental clearance under EIA notification dated 14.09.2006 for establishment of group housing project namely Escon Primera located at Chatt, Zirakpur, Dera Bassi, S.A.S Nagar Mohali by M/s Malwa Projects (P) Ltd., H.No 3439, Sector 27 D, Chandigarh Proposal No. SIA/PB/NCP/71464/2017.	The Authority decided to accept the recommendations of SEAC and grant environmental clearance to the project.	Environmental clearance has been granted to the project proponent vide letter No. 348 dated 21.03.2018.
128.06	Application for environmental clearance under EIA notification dated 14.09.2006 for establishment of group housing project namely "AGI Sky Garden" in the revenue estate of Village Khajurla, Phagwara, Kapurthala, Punjab by M/s AGI Infra Ltd. C/o Jalandhar Heights 66' Road, Village Pholriwal, Jalandhar – 144022 Proposal No. SIA/PB/NCP/71431/2017	The Authority decided to accept the recommendations of SEAC and grant environmental clearance to the project.	Environmental clearance has been granted to the project proponent vide letter No. 339 dated 21.03.2018
128.07	Application for issuance of TOR under EIA notification dated 14.09.2006 for expansion of steel manufacturing unit by addition of two induction furnace in Village- Jalalpur, Amloh Road, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab by M/s Dasmesh Castings (P)	The Authority decided to accept the recommendations of SEAC and approved Terms of Reference for undertaking detailed EIA & EMP.	ToRs have been issued to the project proponent vide letter No. 385 dated 21.03.2018

	Limited(Proposal no SIA/PB/IND2/21384/ 2018)		
128.08	Application for issuance of TOR under EIA notification dated 14.09.2006 for expansion of steel manufacturing unit by addition of two induction furnace in Village- Salani, Amloh Road, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab by M/S Behari Lal Ispat (P) Limited(Proposal no SIA/PB/IND2/21590/ 2018)	The Authority decided to accept the recommendations of SEAC and approved Terms of Reference for undertaking detailed EIA & EMP.	ToRs have been issued to the project proponent vide letter No. 380 dated 21.03.2018.
128.09	Application for issuance of TOR under EIA notification dated 14.09.2006 for expansion of steel manufacturing unit by addition of two induction furnace in Village Jalalpur, Amloh Road, Mandi Gobindgarh, District Fatehgarh Sahib by M/s HANSCO IRON & STEEL (P) LIMITED(Proposal no SIA/PB/IND2/21478/ 2017)	The Authority decided to accept the recommendations of SEAC and approved Terms of Reference for undertaking detailed EIA & EMP.	ToRs have been issued to the project proponent vide letter No. 357 dated 21.03.2018.
128.10	Application for issuance of TOR under EIA notification dated 14.09.2006 for expansion of steel manufacturing unit by replacing existing induction furnace and adding one rolling mill in Village- Alour, Bhadla Road, Khanna, Ludhiana, Punjab by M/s Chopra Alloys (Proposal no SIA/PB/IND2/21511/ 2018)	The Authority decided to accept the recommendations of SEAC and approved Terms of Reference for undertaking detailed EIA & EMP.	ToRs have been issued to the project proponent vide letter No. 360 dated 21.03.2018.
128.11	Application for environmental clearance under EIA notification dated 14.09.2006 for	The SEIAA decided to remand the case to SEAC for reviewing the issue again on the	The file has been sent to SEAC for taking further necessary action.

	establishment of group housing project namely z Mews Gate located at Khanpur, Kharar, SAS Nagar Mohali by M/s Ubber Reality, SCO-1, VIP Enclave, Habitpur Road, Sector 5 Sadde Majra, DeraBassi- Proposal No. SIA/PB/NCP/71296/2017.	basis of concrete documentary evidence, if any submitted by project proponent.	
128.12	Application for issuance of TOR under EIA notification dated 14.09.2006 for expansion of paper manufacturing industry without pulp manufacturing in Village- Bhanri, Maine Road, Patiala, Punjab by M/s DSG Papers Private Limited (Proposal no SIA/PB/IND2/21853/ 2018)	The SEIAA decided to accept the recommendation of SEAC and allowed the project proponent to withdraw its TOR application.	The decision of SEIAA has been conveyed to the project proponent vide letter No. 363 dated 21.03.2018.
128.13	Application for issuance of TOR under EIA notification dated 14.09.2006 for Expansion of existing water based paints, powder coating paints and emulsion manufacturing facilities in its Integrated Paint Manufacturing Facility at Phase II, Goindwal Industrial Complex, Village - Goindwal Sahib, Tehsil- Khadur Sahib, District- Tarn Taran, Punjab by M/s Kansai Nerolac Paints Limited (Proposal no SIA/ PB/IND2/ 21582/2018)	Tthe SEIAA decided as under:- 1. Secretary, SEAC shall write a letter to Northern Regional Office of MoEF&CC at Chandigarh to send the compliance report of the earlier environmental clearance conditions granted to the project proponent by SEIAA, Punjab vide letter no. 3723 dated 05.12.2016 for establishment of "Integrated Paint Manufacturing Facility" in the plot A1, Phase 2, Goindwal Industrial Complex Goindwal Sahib, District Tarn	(i) The Secretary (SEAC) has been requested vide letter No. 383 dated 21.03.2018 as per decisions 1 & 3 taken by the SEIAA. (ii) ToRs will be issued to the project proponent after the issuance of letter to Northern Regional Office of the Ministry by SEAC.

		Taran, Punjab 2. To accept the recommendations of SEAC and approved Terms of Reference. However, formal TOR letter be issued only after action at a) above is taken by Secretary, SEAC. The project proponent shall submit final EIA / EMP based upon the TORs to the State Expert Appraisal Committee for Appraisal of its project. 3. In future, whenever any TOR/EC application for expansion projects is received and accepted online (where certified compliance report is required), Secretary SEAC will request Northern Regional Office of MoEF&CC at Chandigarh to send the compliance report of the earlier environmental clearance conditions granted to the project proponent so that application can be processed by SEIAA/ SEAC as per procedure	

		prescribed by MoEF & CC.	
128.14	Application for issuance of TOR under EIA notification dated 14.09.2006 for expansion of sugar plant (7,000 TCD to 12,000 TCD) and Co-generation power plant of 37 MWin Village Randhawa, Tehsil-Dasuya, District-Hoshiarpur, Punjab by M/s A. B. SUGARS LIMITED (Proposal no SIA/PB/IND2/21656/ 2018)	The SEIAA decided as under:- a. Secretary, SEAC shall write a letter to Northern Regional Office of MoEF&CC at Chandigarh to send the compliance report of the earlier environmental clearance conditions granted to the project proponent by MoEF&CC, New Delhi vide no. J-11011/764/2007-IA II (I) dated 3rd June, 2010 for 7000 TCD and cogeneration power plant of 33 MW on plot area 170 acre. b. To accept the recommendations of SEAC and approved Terms of Reference. However, formal TOR letter be issued only after action at a) above is taken by Secretary, SEAC. A detailed draft EIA/EMP report should be prepared as per the above noted TOR. The company should prepare draft rapid EIA / EMP Report for its project based	(i) The Secretary (SEAC) has been requested vide letter No. 384 dated 21.03.2018 as per decision taken by the SEIAA. (ii) ToRs will be issued to the project proponent after the issuance of letter to Northern Regional Office of the Ministry by SEAC.

		on above Terms of Reference and apply to the Member Secretary, Punjab Pollution Control Board for conducting public hearing as per the provisions of EIA Notification, 2006 as amended from time to time on submitting EIA / EMP / Executive Summary Report prepared by the industry as per TORs. The project proponent shall submit final EIA / EMP based upon the TORs to the State Expert Appraisal Committee for Appraisal of its project.	

Item No.129.03: Application for issuance of TORs for carrying out EIA study for obtaining Environmental clearance under EIA notification dated 14.09.2006 for expansion of existing institute namely "IIT Ropar" – Phase-IC Expansion in the revenue estate of Bara Phool & Nunowal, Gharispur, Bara Surtanpur & Rattanpur, Rupnagar and Chamkaur Sahib, Rupnagar, Punjab by IIT Ropar (Proposal No. SIA/PB/NCP/21999/2018)

The facts of the case are under:-

Earlier, Indian Institute of Technology, Ropar was granted environmental clearance for expansion of existing institute namely "IIT Ropar" –Phase-IA in the revenue estate of Bara Phool & Nunowal, Gharispur, Bara Surtanpur & Rattanpur, Rupnagar and Chamkaur Sahib, Rupnagar, Punjab in an area of 2,20,653.77 sqm having total built up area of 1,01,072.21 sqm (For Phase-1) vide letter number 78 dated 07.01.2015 by SEIAA, Punjab.

Thereafter, IIT, Ropar had applied online for issuance of TOR for conducting the EIA as required under EIA notification dated 14.09.2006 for expansion of its existing institute namely "IIT Ropar"- Phase-IB in the revenue estate of Bara Phool & Nunowal, Gharispur, Bara Surtanpur & Rattanpur, Rupnagar and Chamkaur Sahib, Rupnagar, Punjab and was issued TOR vide letter no. 923 dated 05.05.2017 by SEIAA Punjab.

After the expiry of term of SEIAA on 05.05.2017, the institute after carrying out EIA study, applied online to MoEF & CC, New Delhi for obtaining the environmental clearance for expansion of its existing institute namely "IIT Ropar"- Phase-IB in the revenue estate of Bara Phool & Nunowal, Gharispur, Bara Surtanpur & Rattanpur, Rupnagar and Chamkaur Sahib, Disttt. Rupnagar, Punjab with reference proposal no. IA/PB/NCP/67157/2017 dated 11.08.2017. After considering the proposal by EAC of MOEF & CC in their 22nd meeting held on 11-13 September 2017 and lastly in 24th meeting held on 30-31 October 2017, the environmental clearance was granted to the institute for expansion Phase IB i.e. for built up area of 1,71,848.71sqm vide F.no. 21-312/2017-IA-III dated 07.02.2018 by the MoEF & CC, New Delhi.

Indian Institute of Technology, Ropar has now applied online for issuance of TOR for conducting the EIA as required under EIA notification dated 14.09.2006 for expansion of its existing institute namely "IIT Ropar"- Phase IC in the

revenue estate of Bara Phool & Nunowal, Gharispur, Bara Surtanpur & Rattanpur, Rupnagar and Chamkaur Sahib, Distt. Rupnagar, Punjab. The project of the promoter pertains to category 'B' and it falls under category 8 (b) of the Schedule appended to the said Notification.

As per requirement of OM dated 07.09.2017 issued by MoEF & CC, New Delhi, the Northern Regional office, Chandigarh of the Ministry has been requested vide letter no. 318 dated 08.03.2018 to send the certified compliance report of the previously granted Environmental Clearance to the project.

The case was considered by SEAC in its 163rd meeting held on 13.03.2018, which was attended by the following on behalf of project proponent:

(i) Sh. Harmit Singh Bedi, Chairman CMG, IIT Ropar
(ii) Sh. Ashish Rana, Environmental Consultant of M/s Aplinka Solutions & Technologies.
(iii) Mrs. Anasua Nag, Environmental Consultant of M/s Aplinka Solutions & Technologies.
(iv) Mr. Shashank Srivastava, Environmental Consultant of M/s Aplinka Solutions & Technologies.

Sh. Anasua Nag, Environmental Consultant of M/s Aplinka Solutions & Technologies, Environmental Consultant of the project proponent presented the salient features of the project as under:-

- Indian Institute of Technology, Ropar has applied online for issuance of TOR for conducting the EIA as required under EIA notification dated 14.09.2006 for expansion of its existing institute namely "IIT Ropar"- Phase IC in the revenue estate of Bara Phool & Nunowal, Gharispur, Bara Surtanpur & Rattanpur, Rupnagar and Chamkaur Sahib, Rupnagar and Chamkaur Sahib, Rupnagar, Punjab. The project pertains to category 'B' and it falls under category 8 (b) of the Schedule appended to the said Notification.

- **Phase wise detail**

Phases	Built up area	Construction of the buildings	Total Plot area
Phase-IA	1,01,072.21 m^2	Academic Zone, Hostel Zone, Residential Zone and Utility Zone	Total Plot area =18,49,895.94 sqm (457 acre, 184.98 ha) Total plot area under present planning = 22.065 ha
Phase-IB	1,01,072.21 sqm	Type 5 & Type 6 residential zone;	Total Plot Area =

	to 1,71,848.71 m^2	New Library & Lecture Hall, Work Shop, Central Research Facility Block, Kendriya Vidyalaya, Boys' Hostel, Girls' Hostel, Visitor's Hostel and New Dining Hall	19,47,913.87 sqm (481.34 acre, 194.79 ha) Net Plot Area = 18,79,956.63 sqm (464.55 acre, 187.99 ha) Total plot area under present planning = 45 ha
Phase-IC	1,71,848.71 sqm to 2,82,381.27 m^2	Super academic building and lecture hall complex, accommodations for married scholars, residential flats of T2B, T5 & T6, Hostel Zone and Common Facilities Zone	Total Plot Area = 19,47,913.87 sqm (481.34 acre, 194.79 ha) Net Plot Area = 18,79,956.63 sqm (464.55 acre, 187.99 ha) Total plot area under present planning = 47 ha

Brief of the project:

Sr. No.	PARTICULARS	DETAILS
1.	Total Plot Area	19,47,913.87 m^2
2.	Net Plot Area	18,79,956.63 m^2
3.	Total Built up Area	2,82,381.27 m^2
8.	Estimated Population	8061
9.	Total water requirement	Summer Season: 1207 KLD Rainy Season: 1093 KLD Winter Season : 1125 KLD
10.	Sullage generation	622 KLD
11.	STP capacity	2 no. of 500 KLD each
12.	Total Power Requirement	16,685.29 kVA
13.	Total Power Backup	(8 x 500 kVA), (1 x 250 kVA) (4 x 380 kVA) & (2 x750 kVA).
14.	Total solid waste generated	3297.68 kg/day
16.	Parking Details (in ECS)	Parking reqd.: As per Approved Plan = 3963 ECS Parking Proposed = 4015 ECS

- **Brief Area Statement**

Sr. No.	Particular	Existing (m^2)	Proposed Phase IB (m^2)	Proposed Phase IC (m^2)	Total (m^2)
1	Total Plot Area	19,47,913.87			
2	Area under road widening	59,256.50			
3	Area under Budki River	8700.74			
4	Net Plot Area (1-2-3)	18,79,956.63			
5	Permissible Ground Coverage(@40% of the net plot area)	7,51,982.48			
6	Ground Coverage Achieved	37,053.77	25,378.64	30,902.52	93,334.93
8	Total Area for Surface parking	54518.29		38108	92626.29
9	Landscape Area	30,000	61,230	50,941	1,42,171
10	Permissible FAR (@1 of the net plot area)	18,79,956.2			
11	Achieved FAR	1,01,072.21	54,678.75	1,08,404.87	2,64,155.83
12	Built Up Area	1,01,072.21	70,876.5	1,10,432.56	2,82,381.27
13	Maximum Height	15.35 trs			

- After the expansion; the total population of the Institutional Project is envisaged to be 8061 which includes the permanent and floating population of residential zone, academic zone, hostel zone and common utility zone. The detailed population breakup is as under:-

Population Details

Sr. No.	Description	No./ Area	Density	Total Population
1	**Residential**			**2339**
A	**IA + IB**			
A1	Type T2 Apartment	64	5	320
A2	Type T4 Apartment	56	5	280
A3	Director's residence + Servant Quarter		7	7
A4	Type T5 Apartment	64	5	320
A5	Type T6 Apartment	8	5	40
A6	Staff		5 % of the residential population	48
A7	Visitors		10 % of the residential population	96
B	**IC Expansion**			
B1	Married	54	2	108

	Accommodation			
B2	T2B Residences	56	5	280
B3	T5 Residences	48	5	240
B4	T6 Residences	64	5	320
B5	Type T6 Apartment	24	5	120
B5	Staff		5 % of the residential population	53
B6	Visitors		10 % of the residential population	107
2	**Hostel Zone**			**3006**
A	**IA + IB**			
A1	Boys' Hostel	1670	1	1670
A2	Girls' Hostel	390	1	390
A3	Visitor's Hostel	100	1	100
A4	Dining Hall (Staff)			58
A5	Other Staff		2% of the hostel population	45
B	**IC Expansion**			
B1	Boys' Hostel	463	1	463
B2	Girls' Hostel	245	1	245
B3	Staff		5% of the hostel population	35
3	**Common Facility Zone (Staff only)**			**61**
A	**IA+IB**			
A1	Library & Lecture Hall	5713.33 m2	1 person/4 m2 of FAR	1356
A2	Workshop	1855.67 m2	1 person/10 m2 of FAR	186
A3	Staff		2% of the common facility population	31
B	**IC Expansion**			
	Substation/Workshop-II/Liquid Nitrogen Plant/Medical Center	2971.42 m2	1 person/10 m2 of FAR	297
B1	Staff		10% of the Commmon Facility Zone population	30
4	**Academic Zone**			**2655**
A	**IA+IB**			
A1	Central Research Facility Block	1425.81 m2		840
A2	Kendriya Vidyalaya	5247.74 m2	1 person/4 m2 of FAR	960
	EE Dept	7872.38 m2	1 person/4 m2 of FAR	787
A3	***Staff***		**10% of the EE Deptt population**	***79***

	Admin Building	8574.43	1 person/10 m2 of FAR	857
A4	***Staff***		**10% of the EE Deptt population**	***86***
	SMMEE Deptt.	8516.11	1 person/10 m2 of FAR	852
A5	***Staff***		**10% of the EE Deptt population**	***85***
	Chemistry Deptt.	8170.85	1 person/10 m2 of FAR	817
A6	***Staff***		**10% of the EE Deptt population**	***82***
	Computer Science Deptt.	5475.45	1 person/10 m2 of FAR	548
A7	***Staff***		**10% of the EE Deptt population**	***55***
	Lecture Hall Complex	3848.15	1 person/4 m2 of FAR	962
A8	***Staff***		**10% of the EE Deptt population**	***96***
A9	***Student Activity Center***	2122.46	1 person/10 m2 of FAR	***212***
B	**IC Expansion**			
B1	Staff		5 % of the Academic population zone (3200 student strength)	**160**
	Total (1+2+3+4)			**8061**

- **Parking Requirement**

As per Approved Building Plan			
Particular	**Area(m^2)**	**Density**	**ECS**
FAR	2,64,155.83	1.5 ECS / 100 m^2 FAR	3,962.34
Parking Required			**3963**

Parking Proposed

Area provided for surface parking	92,344.39m^2
Area required by 1 ECS for surface parking	23 m^2
No. of ECS provided by surface parking	4,015 ECS
Total Parking Provided :4015 ECS	

- Total Green area development will be done in an area of 1,42,171m^2. Plantation will be done on both sides of roads along the periphery of the plot area.
- After the expansion; the power requirement of the educational institute will be 16,685.29kVA which will be supplied by PSPCL. The power back up arrangement will be provisioned by the DG sets of capacity of (8 x 500 kVA), (1 x 250 kVA) (4 x 380 kVA) & (2 x750 kVA).

- **Water Calculation**

Sr. No.	Particular	Occupancy	Per Capita Water Req.	Total Water Requirement	Fresh Water	Treated Water	Waste water
A	**Residential**			**282.32**	**205.47**	**76.84**	**241.22**
1	Permanent Population	2,035	135	274.73	203.50	71.22	234.02
2	Staff	101	45	4.55	1.18	3.37	4.31
3	Visitors	203	15	3.05	0.79	2.26	2.89
B	**Hostel Zone**			**411.89**	**306.91**	**104.98**	**350.51**
1	Boys' /Girls'/ Visitors' Hostel	2868	135	387.18	286.80	100.38	329.82
2	Dining Hall	3700	5	18.50	18.50	0.00	14.80
3	Staff	138	45	6.21	1.61	4.60	5.89
C	**Common Facility Zone**			**2.75**	**0.71**	**2.03**	**2.60**
1	Staff	61	45	2.75	0.71	2.03	2.60
D	**Academic Zone**			**28.94**	**7.50**	**21.43**	**27.43**
1	Central Research Facility Block/Kendriya Vidyalaya	1800	45	81.00	21.00	60	76.80
2	Staff	643	45	28.94	7.50	21.43	27.43
3	Student Activity Center	212	15	3.18	0.82	2.36	3.02
4	Day Scholars	1510	45	67.95	17.62	50.33	64.43
E	**Landscape**			**61.94**	**0**	**61.94**	**0**
F	**HVAC Cooling**			**326**	**0**	**326**	**0**
Total (A+B+C+D+E+F)				**1113.83**	**520.60**	**593.23**	**621.77**

- During the operational phase and summer season, approximately 622 KLD of wastewater will be generated from the project which will be treated in a MBBR based Sewage Treatment Plant of capacity 500 KLD (2 no. each). Approximately 500 KLD of treated water will be recovered from the STP. However, after the expansion of the project; the overall demand of treated water will be 593 KLD. All the treated water recovered from the STP will be utilized in flushing, landscaping and HVAC cooling, thus leading to zero exit

discharge. Therefore, the additional fresh water will be required to meet the demand of treated water. The fresh water requirement, treated water requirement and total water requirement will be varying according to the seasonal demands and the details are as under: -

Sr. No.	Particular	Summer Season	Rainy Season	Winter Season
1	Fresh Water	614KLD	557KLD	573 KLD
2	Flushing Requirement	205 KLD	205 KLD	205 KLD
3	HVAC Cooling	326 KLD	326 KLD	326 KLD
4	Horticulture	62 KLD	5 KLD	21 KLD
5	Treated Water Requirement	593 KLD	536 KLD	552KLD
6	Total Water Requirement	1207 KLD	1093 KLD	1125 KLD

- ***Solid Waste***

During the operation phase, the solid waste generated from the project shall be mainly domestic waste and estimated quantity of the waste shall be approx. 3297.68 kg per day (@0.5 kg per capita per day for permanent population, 0.25 kg per capita per day for the Staff/Utilities/days scholars @ 0.15 kg/day for the visitors/student activity, and landscape wastes @ 0.2 kg/acre/day). The municipal solid waste will be managed as per the provision of Solid Waste Management Rules, 2016.Calculation and Composition of solid waste generation is as under:

Solid Waste Calculation

Sr. No.	Particular	Occupancy/Area	Kg per capita per day	Waste Generated (kg/day)
A	**Residential**			**1073.2**
1	Permanent Population	2,035	0.5	1017.5
2	Staff	101	0.25	25.25
3	Visitors	203	0.15	30.45
B	**Hostel Zone**			**1824.7**
1	Boys' /Girls'/Visitors' Hostel	2868	0.5	1434
2	Dining Hall	3700	0.1	370
3	Staff	138	0.15	20.7
C	**Common Facility Zone**			**15.25**

1	Staff	61	0.25	15.25
D	**Academic Zone**			**377.5**
1	Central Research Facility Block/Kendriya Vidyalaya	1800	0.25	450
2	Staff	643	0.25	160.75
3	Student Activity Center	212	0.15	31.8
4	Day Scholars	1510	0.25	377.5
E	**Landscape**	**35.13**	0.2 kg/acre/day	**7.03**
	Total (A+B+C+D+E)			**3297.68**

- The project proponent submitted the proposed Terms of Reference.

The SEAC raised certain queries to which the project proponent submitted reply as under: -

Sr. No	Observation	Reply
1.	The total site area is 187.99 ha, which is more than 150 hectares. Hence, the project is to be appraised by MoEF as it becomes category "A" project.	The project proponent submitted that at present, their net planned area is less than 47 ha which is less than150 hectares & whereas rest of the area @ 140.99 is reserved for the future expansion. The total built-up area for phase-1A, 1B and Phase-1C (expansion) is 282381.27 sqm which is less than 3.0 Lac sqm, so it is to be treated as category 'B' Project as was considered at the time of grant of EC/TOR of phase 1A & phase 1B.
2.	Compliance of the Punjab Pollution Control Board observations for which notice was issued in year 2016.	The project proponent submitted that they had already submitted the compliance of the observations to the PPCB. A copy of the same will be submitted with the EIA report.
3.	The site is very close to river Sutlej falling in between the river and a seasonal drain.	The project proponent vide letter no. 1365 dated 14.07.2014 had submitted a copy of the Clearance certificate vide no. 1775/NOC dated 26.06.2014 issued by the Water Management & Investigation Division, Roop Nagar

The SEAC was apprised that as per requirement of OM dated 07.09.2017 issued by MoEF & CC, New Delhi, the Northern Regional office,

Chandigarh of the Ministry has been requested vide letter no. 318 dated 08.03.2018 to send the certified compliance report of the previously granted Environmental Clearance to the project.

The aforesaid issues are required to be attended by the project proponent and the following additional conditions are required to be made as part of the TOR:-

a) Compliance report of the Clearance certificate issued by the Water Management & Investigation Division, Roop Nagar vide no. 1775/NOC dated 26.06.2014, shall be submitted.
b) Certified compliance report of the previously granted Environmental Clearance from the Northern Regional office, Chandigarh of the Ministry as sought by SEAC vide letter no. 318 dated 08.03.2018, shall be submitted.
c) Compliance of the PPCB observations for which notice issued in year 2016, shall be submitted.
d) Examine and submit the details of the at least three observation wells for ground water monitoring which should be quantitative and qualitative.

Thereafter, the project proponent requested for allowing to use the monitoring data from the previous EIA report as baseline monitoring data required for EIA study as the monitoring has been carried in the previous year 2017.

After detailed deliberations in the matter, the SEAC decided to accept the request for using the monitoring data carried out for previous EIA report and recommend to SEIAA to issue the following "Terms of Reference" to the project proponent for preparation of the EIA report and to allow the project proponent to use the data of monitoring from the previous EIA report as baseline data preparing the EIA report:

A. Construction stage

1. The project falls under category **B-1** under item 8(b) Township and Area Development projects and requires an Environmental Impact Assessment Study for the entire site area.
2. 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.
3. Examine and submit the details of the environmental impacts at the stage of land acquisition including aspects such as displacement of families,

rehabilitation, acquiring of agricultural/forest land, acquiring of ecologically important lands and water bodies.

4. Examine baseline environmental quality along with projected incremental load due to the project.
5. 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.
6. Examine and submit the details of the environmental impacts due to change of land use and land cover including aspects such as hydrological characteristics, imperviousness of land and drainage pattern being altered.
7. Submit the details of the trees to be felled for the project.
8. Submit the present land use and permission required for any conversion such as forest, agriculture etc
9. Examine the details of Source of water, water requirement, use of treated waste water and prepare a water balance chart.
10. Examine soil characteristics and depth of ground water table for rainwater harvesting.
11. Examine and submit the details of the environmental impacts at the stage of construction of boundaries & fencing including its impact on the pattern of natural drainage and flooding pattern and barriers being constructed for restricting wildlife movement into project area.
12. Examine and submit the details of the environmental impacts due to leveling and landscaping including aspects such as excavation & filling of soil, clearing of vegetation, change of topography, development of plantation, green belt, lawns & parks and development of impervious areas.
13. Examine and submit the details of the environmental impacts due to excavation, transportation and filling of earth including aspects such as excavation, filling, sourcing, transportation and disposal of soil.
14. Examine and submit the details of the construction material to be used at the construction stage including aspects such as quarries and transportation, stone crushing and screening, mining & transportation of sand, soil excavation, transportation and filling.
15. Examine and submit the impacts being caused due to transportation of construction materials and men such as increase in traffic and load on public transportation facility, destruction and damage of transportation infrastructure, increase of risk due to road accident, pollution caused due to dust and tail pipe emissions and consumption of fuel by transport vehicles. A detailed traffic and transportation study should be made for existing and projected passenger and cargo traffic.
16. Examine and submit the details of the temporary housing and amenities to be created and used by the work force including aspects such as water supply, electrical energy and fuel supply.
17. Examine and submit the details of the environmental impacts at the stage of creation of roads, transportation facility and other physical infrastructure including aspects such as use of construction materials, excavation and /or filling of soil, generation of construction waste, creation of impervious surfaces, noise & suspended dust pollution and accidental risk.

18. Examine and submit the details of the noise pollution, air pollution, consumption of fuel and generation of scrap being caused due to operation and maintenance of construction machinery and equipment.
19. Examine and submit the details of the source and supply of water for construction activity.
20. Examine and submit the details of the source and quantity of power for construction activity.
21. Examine and submit the details of the fuel consumption, noise pollution, emissions of the exhaust gas, engine & coolant oil and batteries being discarded due to captive and emergency power generation.
22. Examine and submit the details of the handling of wastewater during construction including the domestic wastewater being generated from amenities.
23. Examine and submit the details of the environmental impacts at the stage of development of residential buildings, commercial, institutional and industrial infrastructure including aspects such as construction materials to be used, earth work (excavation and/or soil filling), generation of construction waste, lighting, HVAC units, waste generation from packaging, residual paints and chemicals and their cans, Generation of wooden, glass, metal and other scrap materials, plumbing and sanitary waste generation, creation of impervious surfaces, noise pollution, suspended dust pollution and risk of accidents.
24. Examine and submit the details of the environmental impacts due to the laying of the water supply system including aspects such as use of piping, fittings ad pumps, water pumping stations, earth work and water treatment plant.
25. Examine and submit the details of the environmental impacts due to the laying of the sewerage and sewage treatment and disposal system including aspects such as use of construction material, piping, fittings ad pumps, earth work, laying of sewers & manholes, sewage pumping stations and sewage treatment plant.
26. Examine and submit the details of the environmental impacts due to the laying of the storm water drainage system including aspects such as use of construction material, piping, fittings and pumps, earth work, storm drains, storm water inlets and catch basins and storm water outfalls.
27. Examine and submit the details of the environmental impacts due to the electrical power system and street lighting to be provided including aspects such as construction materials to be used, distribution lines, cables, control panels, transformers and meters.
28. 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.
29. 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. Examine and submit details.

B. Operation stage

1. Examine and submit the details of the environmental impacts due to the residential, commercial, institutional, industrial, recreational, social, cultural & religious activities to be carried out.

2. Examine and submit the details of the environmental impacts due to the facilities to be provided such as water supply, electrical power supply, fuel supply & consumption including LPG, transportation and communication.
3. Examine and submit the details of the environmental impacts due to the coming up of the activities such as urban agriculture and animal husbandry.
4. Examine and submit the details of the environmental impacts due to the sewerage & sewage treatment and its disposal systems and storm water & its drainage system.
5. Examine and submit the details of the environmental impacts caused due to the generation of captive power & emergency power.
6. Submit the details of the management & handling of municipal solid waste, e-waste, hazardous waste, scrap, estate management, construction and demolition waste management.
7. Submit the details of the socio economic impact due to the employment to be generated from the household activities.
8. Rain water harvesting proposals should be made with due safeguards for ground water quality. Maximize recycling of water and utilization of rain water. Examine details.

C. General

1. Other details as indicated in Appendix III of EIA Notification 2006 and the manual titled as "EIA guidance Manual-Building, Construction, Township and area Development projects" published by the Ministry of Environment & Forests, New Delhi, should also be attended.
2. Environmental aspects identified under some of the project activities may not be comprehensive and some of the significant aspects under some of the activities of the project in question might not have been identified. All such environmental aspects may be added to the list.
3. Some of the activities with their associated environmental aspects of the project in question might be of significant magnitude and not included in the list project activities. All such activities may be added to the list of project activities.
4. The project proponent may add additional project activities and environmental aspects, if any, fill the impact matrix (copy attached) and carryout significance analysis for identifying the significant environmental aspects. Scale, sensitivity and duration of impacts; type, size and frequency of environmental aspects; applicable legal requirements; and concerns of interested parties and local public may be used as the basis for the significance analysis of the environmental aspects.
5. In the EIA study each of the environmental aspects listed in the TOR should be quantified, their positive and negative impacts on different areas of impacts should be identified and assessed and the results of such assessment should be reported in the EIA report.
6. In the Environment Management Plan, management of each of the significant environmental aspects (with identified and assessed significant environmental impacts) for mitigating the impacts should be objectively stated.
7. Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of EP Act.

8. Ground water classification as per the Central Ground Water Authority.
9. Environment Management Plan should include technical and institutional aspects for pre-treatment by constituent units.
10. Environmental Management Plan should be accompanied with Environmental Monitoring Plan and environmental cost and benefit assessment. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
11. Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
12. Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.
13. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given
14. 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.
15. Does the Environment policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
16. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions? Details of this system may be given.
17. Does the company have a system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed in the EIA report.
18. Delineate the concrete proposal regarding activities to be undertaken under Corporate Social Responsibility programme, which should be long lasting in nature and should be as per the needs of a particular Village/area/ local habitats/ stakeholders to be adopted by the promoter company, which can be done by involving a person having knowledge and experience of socio-economic activities.
19. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, road width, parking arrangement etc.
20. The project proponent may use the monitoring data (carried out in the year 2017) from the EIA report of its earlier project as baseline monitoring data required for preparing EIA study report in its proposed project.
21. Compliance report of the Clearance certificate issued by the Water Management & Investigation Division, Roop Nagar vide no. 1775/NOC dated 26.06.2014, shall be submitted.
22. Certified compliance report of the previously granted Environmental Clearance from the Northern Regional office, Chandigarh of the Ministry as sought by SEAC vide letter no. 318 dated 08.03.2018, shall be submitted.
23. Compliance of the PPCB observations for which notice issued in year 2016, shall be submitted.

24. Examine and submit the details of the at least three observation wells for ground water monitoring which should be quantitative and qualitative.

The aforesaid 'Terms of Reference' will be valid for a period of three years from its issuance. The project proponent should prepare rapid EIA / EMP Report for its project based on above Terms of Reference. The final EIA / EMP be submitted to the SEIAA, Punjab for obtaining environmental clearance.

The monitoring, conducting of public hearing & preparation of EIA report will be carried out by the project proponent at his risk & cost and incase MoEF reports any violation of the conditions of EC, the project proponent will not stake any claim to get the EIA report appraised by the SEAC and grant of environmental clearance thereafter.

The case is placed before the SEIAA for consideration.

Item No.129.04: Application for issuance of TORs for carrying out EIA study for obtaining Environmental clearance under EIA notification dated 14.09.2006 for expansion of steel manufacturing unit by replacement/addition of induction furnaces in Village- Mullanpur Kalan, Tehsil- Sirhind, District- Fatehgarh Sahib, Punjab by M/s Salasar Castings (Proposal no SIA/PB/IND2/22222/ 2018)

The facts of the case are as under:-

The project proponent has filed online application for issuance of TOR under EIA notification, 2006 for expansion of steel manufacturing unit by addition of two induction furnaces in Village Mullanpur Kalan, Tehsil- Sirhind, District- Fatehgarh Sahib, Punjab. The project is covered under category 3(a) - Secondary Metallurgical Industries (ferrous & non-ferrous) of the Schedule appended to the said notification.

On scrutiny of the application, following Essential details were sought online to which the project proponent has replied as under: -

Sr. NO.	EDS raised online	Reply submitted by Project Proponent
1.	Details of location of the industry duly marked on Notified Master or submit the documentary evidence to prove that the site is located in designated industrial area.	Submitted a copy of Master Plan showing that site is located in an industrial zone as per the proposal of notified master plan of the area.

The case was considered by SEAC in its 163rd meeting held on 13.03.2018, which was attended by the following on behalf of project proponent:

(i) Sh. Krishan Lal Chopra, Partner of the Promoter Company.
(ii) Sh. S. Dutta, FAE, M/s CPTL, Chandigarh, Environment consultant of the promoter company.

The SEAC allowed the project proponent to present the salient features of the project for issuance of TORs. Sh. Sumitava Dutta, Environmental Consultant of the promoter company presented the salient features of the project as under: -

- The Partners of the company are as under:

  Krishan Lal Chopra (Partner)

  Prince Chopra (Partner)

Pardeep Kumar (Partner)

- The Industry was granted consent to establishment by Punjab Pollution Control Board, Patiala, Punjab in 2010 vide letter no. ZO-i/FGS/NOC/2009/F-284 dated 23-10-2009 for manufacturing of Steel Ingots @ 54 TPD. The Industry was granted consent to establishment (CTE) for expansion by Punjab Pollution Control Board, Patiala, Punjab in 2017 vide letter no. CTE/EXP/FGS/2017/5637802 dated 01-06-2017 for manufacturing of Steel Ingot @ 82TPD (28700TPA).

YEAR OF ESTABLISHMENT	CAP. OF FURNACE	POWER	TOTAL PRODUCTION	WHETHER COVERED UNDER EIA NOTIFICATION OR NOT
23-10-2009	4.5TPH	2500KVA	54TPD	The industry does not cover under EIA notification S.O. 1533(E) dated 14.09.2006 because the capacity of Induction Furnace is less than 5TPH.
01-06-2017	7TPH	3999KVA	84TPD	The industry does not cover under EIA notification S.O. 3067(E) dated 01.12.2009 because the production capacity of the Industry was <30,000Tons per annum.
The actual production for financial year 2016-17(01-04-2016 TO 31-03-2017) was 18774.32 MT.				

- The details are given in the tabulated form as under:-

S. No.	PARTICULARS	EXISTING	PROPOSED	TOTAL
A	**EXISTING & PROPOSED CAPACITY OF FURNACES & ROLLING MILLS**			
	Induction Furnace	7TPH (To be Replaced)	One no. of 10 TPH, 2 no's of 15 TPH, LRF & Concast	
B	**PRODUCTS**			
	Steel Ingots/Billets(TPA)	**(-)**29,400	**(+)** 1,55,000	1,55,000
C	**RAW MATERIAL**			
	MS Scrap, Ferro Alloys, Sponge iron etc (TPA)	(-) 32,634	(+) 1,72,050	1,72,050
D	**GENERALS**			
1	Project Cost (Lakhs)	6.45 Crores	11.10 Crores	17..5 Crores
2	Land (Acres)	2.0	NIL	2.0
3	Power (KW)	4000	12000	16000 (Source PSPCL)
4	Manpower (nos)	70	150	220
5	Working days	24 hrs 350 working days in year		
E.	**WATER REQUIREMENT** through existing tubewell			
1.	Domestic	5 KLD	15.0KLD	20.0KLD
2.	Cooling (makeup water)	6 KLD	24.0KLD	30.0 KLD

	Total	11 KLD	39.0 KLD	50.0 KLD
F.	**Waste water Generation**			
1.	Domestic	4 KLD	12.0KLD	16.0KLD
2.	Cooling (makeup water)	RECIRCULATION		
	Total	4 KLD	12 KLD	16 KLD
	Source of water	Ground Water (Applied for permission from CGWA)		

- **Area Details**

Total Area	8090 sqm
Covered Area	3450
Area under Green Belt/Lawn	2740 sqm
Area under Roads/open	1900 sqm

- Total cost of the project after expansion is 17.54 crores.
- No Wildlife Sanctuary & no area of Reserved Forests fall within 10 km radius of the project. The industry is located in designated industrial zone.
- There will be no generation of trade effluents from the process. The waste water generated from domestic & cooling tower will be treated through STP plant and will be utilized for cooling purpose/green belt development.
- Cooling water will be re-circulated and cooling blow down will be treated through sewage treatment plant and used for plantation.
- Venturi Scrubber has been installed on existing induction furnace as APCD. Bag filters will be installed followed by cyclone for the proposed induction furnace.
- The existing quantity of slag generated is 4.6 TPD and is being used for filling of low lying area. Total quantity of slag after expansion will be 24.5 TPD and will be used in filling of Low lying area and in Road Making.
- Hazardous waste @ 0.02 kl/annum is generated from DG sets in the form of used oil which is being re-used as lubricants within the industry and dust after expansion (3 ton/annum) recovered by APCD will be sent to TSDF site for final disposal.
- Baseline data will be collected by monitoring & surveying of various environmental components / parameters in the core zone during the study period, details of which are given as under:-

S. NO.	PARAMETERS	DESCRIPTION
1	Meteorology	Meteorological parameters on hourly basis at project site. Parameters: Temperature, Relative humidity, Wind Speed &

		Wind Direction.
2	Air	Ambient air quality monitoring (24 hourly), twice a week. Parameters are PM_{10}, $PM_{2.5}$, SO_2, NO_2 & CO. No. of Locations: 8 locations in core and buffer zone.
3	Noise	Noise level monitoring (Day & Night time), once in a season. No. of Locations: 8 locations in core and buffer zone.
4	Water	Ground water sampling, once in a season. No. of Locations: 8 locations in core and buffer zone. Tested for physical and chemical parameters.
5	Soil	Soil sampling, once in a season. No. of Locations: 6 locations in core and buffer zone.
6	Biological Factors	Biodiversity survey, once in a season. Location: Core and buffer zone.
7	Socio-economic Environment	Socio-economic survey, once in a season. Location: Core and buffer zone.

- Environmental Impact And Management Plan is given as under:-

PARTICULARS	DETAILS
Impact on Air	
Construction/ Operational Phase	Air emissions both gaseous and fugitive from proposed plant will be on account of process emissions from stacks of existing Induction furnace as well as DG. Sets. The mitigation measure adopted as under: ➢ The main raw material and product will be brought in and dispatched by road in covered enclosures. ➢ All the vehicle owners will have valid PUC Certificate ➢ All vehicles are loaded up-to prescribed limit during transportation. ➢ Dust suppression on haul roads will be done at regular intervals. ➢ The Industry has already provided Ventuary scrubber on existing furnace as APCD. After expansion pollution control equipments like Multi-cyclone/bag filter will be provided. ➢ APCD solid waste after expansion will also be sent to TSDF site for final Disposal.
Air Quality Management:	
Emissions Management	➢ A stack of adequate height equipped with Bag filter will be installed with the Induction furnace to control the particulate and gaseous emissions due to combustion of fuel. ➢ All the roads are asphalted to control the fugitive dust emissions ➢ Proper servicing & maintenance of vehicles is/will be carried out. ➢ Green Belt around the periphery and within premises will be provided.
Monitoring	Ambient air quality and stack emission will be regularly

Management	monitored to ensure that ambient air quality standards and suggested limits on stack emission loads would be met honestly at all the time.
Impact on water	
Construction/ Operational phase	Water requirement of the plant will be meeting from existing tube well. Roof top rain water will be recharged to compensate ground water.
Water Management	
	➢ Fresh water requirement of the project will be met by existing tube well. ➢ Domestic waste water generated from the plant will be treated in Septic Tank and treated water will be used in green belt development. ➢ The cooling water will be re-circulated and cooling blow down will be dispose off through septic tank.
Impact on Noise	
Construction/ Operational Phase	The expected noise levels of some of the proposed equipment like Pumps (82-95 dB (A), Induction furnace (95-105 dB (A), DG sets (100-120 dB (A). The above noise levels worked out are without mitigation measures. With the mitigation measures the noise levels will be further restricted within very short distance from the source point. The operators/personnel working near the noise sources in the Plant will be provided with earmuffs and earplugs Green belt will be developed around the plant premises which will act as noise abatement measures.
Noise Management	
	➢ There will be no danger of noise pollution from plant. The green belt (plantation of dense trees across the boundary) helps in reducing noise levels in steel plant as a result of attenuation of noise generated due to plant operations and transportation. ➢ Earmuffs will be used while running the equipments of the plant. ➢ D.G sets will be provided with acoustic to control the noise level within the prescribed limit. ➢ A high standard of maintenance will be practiced for plant machinery and equipments, which helps to avert potential noise problems. ➢ Personal Protective Equipment like earplugs and earmuffs will be provided to the workers exposed to high noise level. ➢ Regular monitoring of noise level will be carried out.
Solid Waste Management	
Management	➢ APCD dust is being sent to TSDF site and slag from process is sent to low lying area for final disposal.

Green belt Management	
Management	➢ Green belt development in and around the plant site helps to attenuate the pollution level. ➢ Out of the total plant area approx. 5% land is already developed as green belt and it will be maintained in future also. ➢ Green belt has been developed as per Central Pollution Control Board (CPCB) guidelines. ➢ Native species have been planted in consultation with the local DFO.

- The cost@ 80.0 lacs towards Environment Protection will be spent and plant manager will be responsible for implementation of environment management plan.
- Environmental Consultant of the Promoter industry proposed the Standard TORs prescribed by the MoEF & CC and made a request to allow them to prepare EIA report by carrying out common monitoring in buffer zone in case of this industry & another industry namely M/s Bhawani Casting Pvt. Ltd., Village Ambey Majra, Tehsil Sirhind, District Fatehgarh Sahib, Punjab as the sites of both the industries fall within 500 m radius of each other and showed the location of both the industries on topo sheet. He further requested for issuance of TOR. The case for issuance of TORs of M/s Bhawani Casting Pvt. Ltd. is listed against Item No. 163.14 of this Agenda. The SEAC accepted the request of Environmental Consultant and allowed them to carry out common monitoring in the buffer zone for the purpose of collecting base line data to prepare EIA report in case of these two industries. However, separate monitoring shall be carried out in the core zone of both the industrial projects.

The SEAC observed that besides TORs already being specified in such projects, following additional points are required to be taken care of while preparing EIA report:-

a) Areas within the premises meant for the movement of vehicles and around the weigh bridge should be paved.
b) Use of treated domestic water as makeup cooling water should be examined and submitted.
c) Use of APCD dust & slag for recovery of zinc & lead should be examined and submitted.
d) Ground water monitoring should be done for heavy metals in addition to routine parameters. At least three samples i.e. one from within the premises and two from outside the premises of the project.

e) Low cost instruments, 02 no. costing about Rs. 50,000/- each, may be purchased in consultation with Dr. M.S. Bhatti, Member SEAC and installed within the premises by the project proponent and Continuous/Real time monitoring data should be carried out and incorporated in the EIA report. To this TOR, the consultant submitted that continuous monitoring instrument cost about Rs. 60-70 Lacs each and it may not be possible for them to purchase such costly instruments. But further submitted that if any such low cost instruments are available as informed by Dr. M.S. Bhatti, Member SEAC they will purchase the same and carry out the continuous monitoring. They agreed to consult Mr. M S Bhatti in this regard.

After detailed deliberations, it was decided to categorize the project into B-1 category and that the project proponent should submit an Environment Impact Assessment Study Report. After further deliberations on the proposed Terms of Reference (TOR) suggested by the project proponent, the Committee approved the following Terms of Reference for Environmental Impact Assessment Study of the proposed project including above three observations as conditions of TOR and recommended to SEIAA to issue the following TORs :-

A. Executive Summary

B. Introduction

   a) Details of the ElA Consultant including NABET accreditation

   b) Information about the project proponent

   c) Importance and benefits of the project

C. Project Description

   i. Cost of project and time of completion.

   ii. Products with capacities for the proposed project.

   iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.

   iv. List of raw materials required and their source along with mode of transportation.

   v. Other chemicals and materials required with quantities and storage capacities.

   vi. Details of Emission, effluents, hazardous waste generation and their management.

   vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract).

viii. Process description along with major equipments and machineries, process flow sheet (quantitative) from raw material to products to be provided

ix. Hazard identification and details of proposed safety systems.

D. Expansion/modernization proposals:

i. Status of compliance of Consent to Operate for the ongoing /existing operation of the project from SPCB shall be attached with the EIA-EMP report.

ii. In case the existing project has not obtained environmental 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 SPCB shall be submitted.

iii. Permission from CGWA for abstraction of ground water shall be submitted during submission of its EIA report.

iv. Separate Air Pollution Control Devices will be installed for proposed new equipments i.e. Laddle Furnace & Vaccum Degasser or any other..

v. STP shall be provided inside the premises for treatment of domestic waste water instead of proposed septic tank as manpower will increase significantly after expansion.

E. Site Details

i. Location of the project site covering village, Taluka / Tehsil, District and State, Justification for selecting the site, whether other sites were considered. Copy of Master Plan indicating a land use pattern of the site is in conformity of proposals of Master Plan shall be attached with EIA report.

ii. A topo sheet of the study area of radius of 10 km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (Including all eco-sensitive areas and environmentally sensitive places)

iii. Co-ordinates (lat-long) of all four corners of the site.

iv. Google map-Earth downloaded of the project site

v. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. I f located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.

vi. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.

vii. Land use break-up of total land of the project site (identified and acquired), government/private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)

viii. A list of major industries with name and type within study area (10 km radius) shall be incorporated. Land use details of the study area.

ix. Geological features and Geo-hydrological status of the study area shall be included.

x. Details of Drainage of the project up to 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)

xi. Status of acquisition of land. lf acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.

xii. R&R details in respect of land in line with state Government policy

F. Forest and wildlife related issues (if applicable):

i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable).

ii. Land use map based on High resolution satellite imagery (OPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha).

iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.

iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-a-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon.

v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area.

vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.

G. Environmental Status

i. Determination of atmospheric inversion level at the project site and site specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.

ii. AAQ data (except monsoon) at 8 locations for PMI 0, PM2.5, S02, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre dominant wind direction, population zone and sensitive receptors including reserved forests.

iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 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.

iv. Surface water quality of nearby River (60m upstream and downstream) and other surface drains at eight locations as per CPCB/MoEF & CC guidelines. Whether the site falls near to polluted stretch of river identified by the · CPCB/MoEF & CC.

v. Ground water monitoring at minimum at 8 locations shall be included. Ground water monitoring should be done for heavy metals in addition to

routine parameters. At least three samples i.e. one from within the premises and two from outside the premises of the project.

vi. Noise levels monitoring at 8 locations within the study area.

vii. Soil Characteristic as per CPCB guidelines.

viii. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, road width, parking arrangement etc. Areas within the premises meant for the movement of vehicles and around the weigh bridge should be paved.

ix. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.

x. Socio-economic status of the study area.

H. Impact Assessment and Environment Management Plan

i. Assessment of ground level concentration of pollutants from the stack · emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modeling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be well assessed. Details of the model used and the input data used for modeling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.

ii. Water Quality modelling.

iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor-cum-rail transport shall be examined.

iv. A note on treatment, recycling and reuse of wastewater from different plant operations, extent for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under EPA Rules. Use of treated domestic water as makeup cooling water should be examined and submitted.

v. Details of stack emission and action plan for control of emissions to meet standards.

vi. Measures for fugitive emission control

vii. Details of hazardous waste generation and their storage, utilization and disposal. Copies of MOU regarding utilization of solid and hazardous waste shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.

viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.

ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1 ,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. Shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.

x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.

xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.

xii. Action plan for post-project environmental monitoring shall be submitted.

xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

xiv. Examine and submit the proposal for:-

a) Recovery of iron from slag before disposing it off.
b) Identify the areas for disposal of slag in scientific manner and study the alternate uses of slag.
c) Use of APCD dust and slag for recovery of zinc and lead.

I. Occupational health

i. Details of existing Occupational & Safety Hazards. What are the exposure levels of above mentioned hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,

ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of abovementioned parameters as per age, sex, duration of exposure and department wise.

iii. Annual report of health status of workers with special reference to Occupational Health and Safety.

iv. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.

J. Corporate Environment Policy

i. 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.

ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the

environmental or forest norms / conditions? If so, it may be detailed in the EIA.

iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.

iv. Does the company have system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

K. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

L. Enterprise Social Commitment (ESC)

i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.

M. 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.

N. A tabular chart with index for point wise compliance of above TORs.

INDUCTION/ARC FURNACES/CUPOLA FURNACES 5 TPH OR MORE

1. Details of proposed layout clearly demarcating various units within the plant.
2. Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs and outputs (material and energy balance).
3. Details on design and manufacturing process for all the units.
4. 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.
5. Details on requirement of raw materials, its source and storage at the plant.
6. Details on requirement of energy and water along with its source and authorization from the concerned department. Location of water intake and outfall points (with coordinates).
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 chrome slag. Details on the recovery of the Ferro chrome from the slag and its proper disposal.

Air Pollution

Plant /Unit	Pollutants	Qty generated	Method used to Control/and specifications/ attach Separate Sheet to furnish Details	Number of units planned & Capacity	Budget	Estimated Post Control Qty Pollutant	
						Per Unit	Per day

Executive Summary

Executive summary of the report in about 8-10 pages incorporating the following:

i. Project name and location (Village, Dist, State, Industrial Estate (if applicable)
ii. Products and capacities. If expansion proposal then existing products with capacities and reference to earlier EC.
iii. Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative)
iv. Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes.
v. Measures for mitigating the impact on the environment and mode of discharge or disposal.
vi. Capital cost of the project, estimated time of completion
vii. Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt/private land, status of is acquisition, nearby (in 2-3 km.) water body, population, with in 10 km other industries, forest , eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary)
viii. Baseline environmental data - air quality, surface and ground water quality, soil characteristic, flora and fauna, socio-economic condition of the nearby population Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.
ix. Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk
x. Likely impact of the project on air, water, land, flora-fauna and nearby population
xi. Emergency preparedness plan in case of natural or in plant emergencies
xii. Issues raised during public hearing (if applicable) and response given
xiii. CSR plan with proposed expenditure.
xiv. Occupational Health Measures
xv. Post Project monitoring plan

Specific TORs:

a) Low cost instruments, 02 no. costing about Rs. 50,000/- each, if available, may be purchased in consultation with Dr. M.S. Bhatti, Member SEAC and installed within the premises by the project proponent and Continuous/Real time monitoring data should be carried out and incorporated in the EIA report.

b) Environmental Consultant of the Promoter Industries namely M/s Salasar Castings, village- Mullanpur Kalan, Tehsil- Sirhind, District- Fatehgarh Sahib, Punjab & M/s Bhawani Casting Pvt. Ltd., Village Ambey Majra, Tehsil Sirhind, District Fatehgarh Sahib, Punjab may carry out common monitoring in the buffer zone for the propose of collecting based line data to prepare EIA report in case of these two industries. However, separate monitoring shall be carried out in the core zone of both industrial projects

The following general points shall be noted:

i. All documents shall be properly indexed, page numbered.
ii. Period/date of data collection shall be clearly indicated.
iii. The letter/application for environmental clearance shall quote the MOEF / SEIAA file No. and also attach a copy of the letter.
iv. The copy of the letter received from the Ministry / SEIAA shall be also attached as an annexure to the final EIA-EMP Report.
v. The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report.
vi. While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MOEF vide notification dated 03.03.2016 which is available on the website of this Ministry shall also be followed.
vii. The consultants involved in the preparation of EIA-EMP report after accreditation with Quality Council of India (QCI) /National Accreditation Board of Education and Training (NABET) would need to include a certificate in this regard in the EIA-EMP reports prepared by them and data provided by other organization/Laboratories including their status of approvals etc. Name of the Consultant and the Accreditation details shall be posted on the EIA-EMP Report as well as on the cover of the Hard Copy of the Presentation material for EC presentation.
viii. The TORs prescribed shall be valid for a period of three years for submission of the EIA-EMP reports along with Public Hearing Proceedings. TORs' prescribed by the State Expert Appraisal Committee (Industry) shall be considered for preparation of

EIA-EMP report for the project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and III A in the EIA Notification, 2006. Where the documents provided are in a language other than English, an English translation shall be provided. The draft EIA-EMP report shall be submitted to the State Pollution Control Board of the concerned State for conduct of Public Hearing. The SPCB shall conduct the Public Hearing/public consultation, district-wise, as per the provisions of EIA notification, 2006. The Public Hearing shall be chaired by an Officer not below the rank of Additional District Magistrate. The issues raised in the Public Hearing and during the consultation process and the commitments made by the project proponent on the same shall be included separately in EIA-EMP Report in a separate chapter and summarized in a tabular chart with financial budget (capital and revenue) along with time-schedule of implementation for complying with the commitments made. The final EIA report shall be submitted to the SEIAA Punjab for obtaining environmental clearance.

The case is placed before the SEIAA for consideration.

Item No.129.05: Application for issuance of TORs for carrying out EIA study for obtaining Environmental clearance under EIA notification dated 14.09.2006 for expansion of steel manufacturing unit by replacement/addition of induction furnaces in Village Sounti, Tehsil- Amloh, Distt- Fatehgarh Sahib, Punjab by M/s Vimal Alloys (P) Limited. (Proposal no SIA/PB/IND2/22237/ 2018)

The facts of the case are under:-

The project proponent has filed application for issuance of TOR under EIA notification, 2006 for expansion of steel manufacturing unit by replacement/addition of induction furnaces in Village Sounti, Tehsil- Amloh, Distt- Fatehgarh Sahib, Punjab. The project is covered under category 3(a) -Secondary Metallurgical Industries (ferrous & non ferrous) of the Schedule appended to the said notification.

On scrutinizing the application, following Essential details were sought online to which the project proponent has replied as under:-

Sr. NO.	EDS raised online	Reply submitted by Project Proponent
1.	The industry has mentioned that they have established the unit in 1991 and obtained CTE from Board for manufacturing of steel ingot@ 45000 TPA. Thereafter, in 2004, the unit got CTE for manufacturing of steel ingot@ 123 TPD. The project proponent is required to submit the details of furnace capacity & electric load	The project proponent has submitted as under:- The Industry was granted approval from Competent State Authority, Govt. of Punjab for manufacturing of steel Ingots @ 45000 TPA vide letter no. CSA/P.A/3503 dated 04-10-1991. The Industry was granted consent to establishment (CTE) for expansion by Punjab Pollution Control Board, Patiala, Punjab in 2004 vide letter no. EE(P)/2004/FGS/LM/7/1/3145 dated 13-02-2004 for manufacturing of Steel Ingot/ casting @ 123TPD.The Industry was granted consent to operate (CTO) by Punjab Pollution Control Board, Patiala, Punjab in 2005 vide letter no. FGS/APC/2005-06/V(158)/09 dated 15-03-2005 for manufacturing of Steel Ingot @ 123TPD. The consent to operate under Water & Air Acts were renewed by Punjab Pollution Control Board from time to time and latest renewal has been done on 04-02-2011, same was valid up-to 31-12-2013 vide their letter no. ZO-I/FGS/WPC/2011-13/F-363 dated 04-02-2011.The Industry was again applied for consent to establishment for modernization (CTO) in 2012 and Punjab Pollution Control Board, Patiala, Punjab issued NOC vide their letter no. SEE (ZP-II)/FGS/APC/2012/NOC/Modernization/476 dated 23-04-2012 for manufacturing of better quality Steel Ingot/steel casting @ 123TPD.The Industry has been applied to MOEF & CC,

	available at that time with documentary evidence and justify that project at any stage has not violated the provisions of EIS notification, 1994, EIA notification dated 14.09.2006 and its amendments.	Regional Office, Chandigarh for clarification for Installation of equipment/machinery named as LADLE REFINING FURNACE, VACUUM DEGASSING & ARGON-OXYGEN DE-CARBONIZATION for refining of the existing Molten Metal's for better quality without increasing production capacity of the unit i.e. 123TPA, in March 2012 which has already been approved by different Authority, since 1991. In this regards, Ministry of Environment Forest & Climate Change had clarified, that unit does not required Environmental Clearance for Installation of equipment/machinery named as Ladle refining Furnace, Vacuum Degassing & Argon-oxygen De-carbonization for refining of the existing Molten Metal's for better quality without increasing production capacity as per EIA Notification 2006 & amended time to time.

YEAR OF ESTABLISHMENT	CAP. OF FURNACE	POWER	TOTAL PRODUCTION	WHETHER COVERED UNDER EIA NOTIFICATION OR NOT
04-09-1991	1TPH, 2X3TPH	2016.5 KW	45000TPA	The industry does not cover under EIA notification.
13-02-2004	2X6TPH	4396.29 KW	123TPD	The industry does not cover under EIA notification 1994.
23-04-2012	1TPH, 4TPH & 7TPH, holding furnace 15TPH, LRF, VD, AOD.	6800KW	123TPD	**MOEF & CC, Regional Office, Chandigarh** has clarified, there are no requirement EC for modernization. Copy enclosed.

2.	Details of location of the industry duly marked on Notified Master or submit the documentary evidence to prove your	Submitted a copy of Maser Plan showing that site is located outside of master plan of Mandi Gobindgarh. The industry is already existing unit and there will be no change in the land use and it is an expansion project. No additional land has been acquired.

	contention that it is located in designated industrial area.	

The case was considered by SEAC in its 163rd meeting held on 13.03.2018, which was attended by the following on behalf of project proponent:

(i) Sh. Varun Bansal, Director of the Promoter Company.

(ii) Sh. S. Dutta, FAE, M/s CPTL, Chandigarh, Environment consultant of the promoter company.

The SEAC allowed the project proponent to present the salient features of the project for issuance of TORs. Sh. Sumitava Dutta, Environmental Consultant of the promoter company presented the salient features of the project as under: -

The Directors of the company are as under:

- Mr. Varun Bansal
- Mr. Subash Bansal
- The details are given in the tabulated form as under :-

S. No.	PARTICULARS	EXISTING	PROPOSED	TOTAL
A	**EXISTING & PROPOSED CAPACITY OF FURNACES & ROLLING MILLS**			
1	Induction Furnace	1TPH, 4TPH & 7TPH, holding furnace 15T, LRF, VD, AOD.	1X1 TPH, 2X15TPH, holding furnace 15T, LRF, VD, AOD.	
3	Heat Treatment Furnace	Four No.	Nil	Four No.
B	**PRODUCTS**			
1	Steel Ingot/Billets, steel casting, steel roll, Metal Rolls, CI/SGI Casting, (TPA)	**(-)**43,050	**(+)**1,17,600	**(+)**1,17,600
C	**RAW MATERIAL**			
1	MS Scrap (TPA)	**(-)**46,750	**(+)**1,28,700	**(+)**1,28,700
2	Ferro-alloys(TPA)	**(-)**900	**(+)**2550	**(+)**2550
D	**GENERALS**			
1	Project Cost (Rs. Crores)	14.0	10.25	24.25
2	Land (Acres)	8.26	NIL	8.26
3	Power (KW)	6800	8000	14800
4	Manpower (nos)	150	100	250

5	Working days	24 hrs 350 working days in year		
E.	**WATER REQUIREMENT** through existing tubewell			
1.	Domestic	18.0 KLD	4.5 KLD	22.5 KLD
2.	Cooling (makeup water)	28.0 KLD	6.5 KLD	34.5 KLD
	Total	46.0 KLD	10.0 KLD	57.0 KLD
F.	**Waste Water Generation**			
	Domestic	14.4 KLD	3.6 KLD	18 KLD
	Cooling (makeup water)	RECIRCULATION		
	Total	14.4 KLD	3.6 KLD	18 KLD
	Source of water	Ground Water (Applied for permission from CGWA)		

- **Area Details**

Total Area	33457 sqm
Covered Area	14052 sqm
Area under Green Belt/Lawn	11041 sqm
Area under Roads/open	8364 sqm

- Total cost of the project after expansion is 24.25 crores.
- No Wildlife Sanctuary & no area of reserved forests falls within 10 km radius of the project. The industry is located in designated industrial zone.
- There will be no generation of trade effluents from the process. The waste water generated from domestic & cooling tower will be treated through Sewage Treatment Plant and will be used for cooling purpose/ green belt development
- Cooling water will be re-circulated and cooling blow down will be treated through sewage treatment plant and used for plantation.
- Bag filter has been installed on existing induction furnace as APCD. Bag filters will be installed followed by cyclone for the proposed induction furnace
- The existing quantity of slag generated is 1.5 TPD and is being used for filling of low lying area. Total quantity of slag after expansion will be 22.4 TPD and will be used in filling of Low lying area and in Road Making.
- Hazardous waste @ 0.05 kl/annum is generated from DG sets in the form of used oil which is being re-used as lubricants within the industry and dust after expansion (17.5 TPA) recovered by APCD will be sent to TSDF site for final disposal.

- Baseline data will be collected by monitoring & surveying of various environmental components / parameters in the core zone during the study period, details of which are given as under:-

S. NO.	PARAMETERS	DESCRIPTION
1	Meteorology	Meteorological parameters on hourly basis at project site. Parameters: Temperature, Relative humidity, Wind Speed & Wind Direction.
2	Air	Ambient air quality monitoring (24 hourly), twice a week. Parameters are PM_{10}, $PM_{2.5}$, SO_2, NO_2 & CO. No. of Locations: 8 locations in core and buffer zone.
3	Noise	Noise level monitoring (Day & Night time), once in a season. No. of Locations: 8 locations in core and buffer zone.
4	Water	Ground water sampling, once in a season. No. of Locations: 8 locations in core and buffer zone. Tested for physical and chemical parameters.
5	Soil	Soil sampling, once in a season. No. of Locations: 6 locations in core and buffer zone.
6	Biological Factors	Biodiversity survey, once in a season. Location: Core and buffer zone.
7	Socio-economic Environment	Socio-economic survey, once in a season. Location: Core and buffer zone.

- The Environmental Impact And Management Plan is given as under:-

PARTICULARS	DETAILS
Impact on Air	
Construction/ Operational Phase	Air emissions both gaseous and fugitive from proposed plant will be on account of process emissions from stacks of existing Induction furnace, Heat treatment furnace & proposed Furnace as well as DG. Sets. The mitigation measure adopted as under: ➢ The main raw material and product will be brought in and dispatched by road through covered enclosures. ➢ All the vehicle owners will have valid PUC Certificate ➢ All vehicles are loaded up-to prescribed limit during transportation. ➢ Dust suppression on haul roads will be done at regular intervals.

	➢ Proper pollution control equipments like Multi-cyclone/ alkali scrubber/bag filter will be provided. ➢ APCD solid waste after expansion will also be sent to TSDF site for final Disposal.
Air Quality Management:	
Emissions Management	➢ A stack of adequate height equipped with Bag filter will be installed with the Induction/ heat treatment furnace to control the particulate and gaseous emissions due to combustion of fuel. ➢ All the roads are asphalted to control the fugitive dust emissions ➢ Proper servicing & maintenance of vehicles is/will be carried out. ➢ Green Belt around the periphery and within premises will be provided.
Monitoring Management	Ambient air quality and stack emission will be regularly monitored to ensure that ambient air quality standards and suggested limits on stack emission loads would be met honestly at all the time.
Impact on water	
Construction/ Operational phase	Water requirement of the plant will be meeting from existing tube well. Roof top rain water will be recharged to compensate ground water.
Water Management	
	➢ Fresh water requirement of the project will be met by existing tube well. ➢ Domestic waste water generated from the plant will be treated in STP and treated water will be used in green belt development. ➢ The cooling water will be re-circulated and cooling blow down will be treated through Sewage Treatment Plant.
Impact on Noise	
Construction/ Operational Phase	The expected noise levels of some of the proposed equipment like Pumps (82-95 dB (A), Induction furnace (95-105 dB (A), DG sets (100-120 dB (A). The above noise levels worked out are without mitigation measures. With the mitigation measures the noise levels will be further restricted within very short distance from the source point. The operators/personnel working near the noise sources in the Plant will be provided with earmuffs and earplugs Green belt will be developed around the plant premises which will act as noise abatement measures.
Noise Management	
	➢ There will be no danger of noise pollution from plant.

	The green belt (plantation of dense trees across the boundary) helps in reducing noise levels in steel plant as a result of attenuation of noise generated due to plant operations and transportation. ➢ Earmuffs will be used while running the equipments of the plant. ➢ D.G sets will be provided with acoustic to control the noise level within the prescribed limit. ➢ A high standard of maintenance will be practiced for plant machinery and equipments, which helps to avert potential noise problems. ➢ Personal Protective Equipment like earplugs and earmuffs will be provided to the workers exposed to high noise level. ➢ Regular monitoring of noise level will be carried out.
Solid Waste Management	
Management	➢ APCD dust is being sent to TSDF site and slag from process is sent to low lying area for final disposal.
Green belt Management	
Management	➢ Green belt development in and around the plant site helps to attenuate the pollution level. ➢ Out of the total plant area approx. 10% land is already developed as green belt and it will be maintained in future also. ➢ Green belt has been developed as per Central Pollution Control Board (CPCB) guidelines. ➢ Native species have been planted in consultation with the local DFO.

- The cost@ 70.0 lacs towards Environment Protection will be spent and plant manager will be responsible for implementation of EMP.
- The Standard TORs prescribed by the MoEF have been proposed.

The SEAC observed that besides TOR already being specified in such projects, following additional points are required to be taken care while preparing EIA report:-

a. The project proponent shall submit the NOC from the PPCB as the site is outside the master plan of Mandi Gobindgarh.
b. Clarification regarding change of furnace in 2003 & 2014.
c. Areas within the premises meant for the movement of vehicles and around the weigh bridge should be paved.
d. Use of treated domestic water as makeup cooling water should be examined and submitted.

e. Use of APCD dust & slag for recovery of zinc & lead should be examined and submitted.

f. Ground water monitoring should be done for heavy metals in addition to routine parameters. At least three samples i.e. one from within the premises and two from outside the premises of the project.

After detailed deliberations, it was decided to categorize the project into B-1 category and that the project proponent should submit an Environment Impact Assessment Study Report. After further deliberations on the proposed Terms of Reference (TOR) suggested by the project proponent, the Committee approved the following Terms of Reference for Environmental Impact Assessment Study of the proposed project including above three observations as conditions of TOR and recommended to SEIAA to issue the following TORs :-

A. Executive Summary

B. Introduction

   a. Details of the ElA Consultant including NABET accreditation
   b. Information about the project proponent
   c. Importance and benefits of the project

C. Project Description

   i. Cost of project and time of completion.
   ii. Products with capacities for the proposed project.
   iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
   iv. List of raw materials required and their source along with mode of transportation.
   v. Other chemicals and materials required with quantities and storage capacities.
   vi. Details of Emission, effluents, hazardous waste generation and their management.
   vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract).
   viii. Process description along with major equipments and machineries, process flow sheet (quantitative) from raw material to products to be provided
   ix. Hazard identification and details of proposed safety systems.
   x. Clarification regarding change of furnace in 2003 & 2014

D. Expansion/modernization proposals:

   i. Status of compliance of Consent to Operate for the ongoing /existing operation of the project from SPCB shall be attached with the EIA-EMP report.
   ii. In case the existing project has not obtained environmental 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 SPCB shall be submitted.

iii. Permission from CGWA for abstraction of ground water shall be submitted during submission of its EIA report.

iv. Separate Air Pollution Control Devices will be installed for proposed new equipments i.e. Laddle Furnace & Vacuum Degasser.

v. STP shall be provided inside the premises for treatment of domestic waste water instead of proposed septic tank as manpower will increase significantly after expansion.

E. Site Details

i. Location of the project site covering village, Taluka / Tehsil, District and State, Justification for selecting the site, whether other sites were considered. Copy of Master Plan indicating a land use pattern of the site is in conformity of proposals of Master Plan shall be attached with EIA report.

ii. A topo sheet of the study area of radius of 10 km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (Including all eco-sensitive areas and environmentally sensitive places)

iii. Co-ordinates (lat-long) of all four corners of the site.

iv. Google map-Earth downloaded of the project site

v. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. I f located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.

vi. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.

vii. Land use break-up of total land of the project site (identified and acquired), government/private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)

viii. A list of major industries with name and type within study area (10 km radius) shall be incorporated. Land use details of the study area.

ix. Geological features and Geo-hydrological status of the study area shall be included.

x. Details of Drainage of the project up to 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)

xi. Status of acquisition of land. lf acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.

xii. R&R details in respect of land in line with state Government policy

F. Forest and wildlife related issues (if applicable):

i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable).

ii. Land use map based on High resolution satellite imagery (OPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha).

iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.

iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-a-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon.

v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area.

vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.

G. Environmental Status

i. Determination of atmospheric inversion level at the project site and site specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.

ii. AAQ data (except monsoon) at 8 locations for PMI 0, PM2.5, S02, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre dominant wind direction, population zone and sensitive receptors including reserved forests.

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v. Ground water monitoring at minimum at 8 locations shall be included Ground water monitoring should be done for heavy metals in addition to routine parameters. At least three samples i.e. one from within the premises and two from outside the premises of the project.

vi. Noise levels monitoring at 8 locations within the study area.

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endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.

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H. Impact Assessment and Environment Management Plan

i. Assessment of ground level concentration of pollutants from the stack · emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modeling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be well assessed. Details of the model used and the input data used for modeling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.

ii. Water Quality modelling.

iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor-cum-rail transport shall be examined.

iv. A note on treatment, recycling and reuse of wastewater from different plant operations, extent for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under EPA Rules. Use of treated domestic water as makeup cooling water should be examined and submitted.

v. Details of stack emission and action plan for control of emissions to meet standards.

vi. Measures for fugitive emission control

vii. Details of hazardous waste generation and their storage, utilization and disposal. Copies of MOU regarding utilization of solid and hazardous waste shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.

viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.

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xiv. Examine and submit the proposal for:-

a) Recovery of iron from slag before disposing it off.

b) Identify the areas for disposal of slag in scientific manner and study the alternate uses of slag.

c) Use of APCD dust and slag for recovery of zinc and lead.

I. Occupational health

i. Details of existing Occupational & Safety Hazards. What are the exposure levels of above mentioned hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved.

ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of abovementioned parameters as per age, sex, duration of exposure and department wise.

iii. Annual report of health status of workers with special reference to Occupational Health and Safety.

iv. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.

J. Corporate Environment Policy

i. 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.

ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.

iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.

iv. Does the company have system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

K. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

L. Enterprise Social Commitment (ESC)

i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.

M. 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.

N. A tabular chart with index for point wise compliance of above TORs.

INDUCTION/ARC FURNACES/CUPOLA FURNACES 5 TPH OR MORE

1. Details of proposed layout clearly demarcating various units within the plant.
2. Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs and outputs (material and energy balance).
3. Details on design and manufacturing process for all the units.
4. 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.
5. Details on requirement of raw materials, its source and storage at the plant.
6. Details on requirement of energy and water along with its source and authorization from the concerned department. Location of water intake and outfall points (with coordinates).
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 chrome slag. Details on the recovery of the Ferro chrome from the slag and its proper disposal.

Air Pollution

Plant /Unit	Pollutants	Qty generated	Method used to Control/and specifications/ attach Separate Sheet to furnish Details	Number of units planned & Capacity	Budget	Estimated Post Control Qty Pollutant	
						Per Unit	Per day

Executive Summary

Executive summary of the report in about 8-10 pages incorporating the following:

i. Project name and location (Village, Dist, State, Industrial Estate (if applicable)
ii. Products and capacities. If expansion proposal then existing products with capacities and reference to earlier EC.
iii. Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative)
iv. Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes.
v. Measures for mitigating the impact on the environment and mode of discharge or disposal.

vi. Capital cost of the project, estimated time of completion
vii. Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt/private land, status of is acquisition, nearby (in 2-3 km.) water body, population, with in 10 km other industries, forest , eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary)
viii. Baseline environmental data - air quality, surface and ground water quality, soil characteristic, flora and fauna, socio-economic condition of the nearby population Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.
ix. Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk
x. Likely impact of the project on air, water, land, flora-fauna and nearby population
xi. Emergency preparedness plan in case of natural or in plant emergencies
xii. Issues raised during public hearing (if applicable) and response given
xiii. CSR plan with proposed expenditure.
xiv. Occupational Health Measures
xv. Post Project monitoring plan

Specific TORs:

a. The project proponent shall submit the NOC from the PPCB as the site is located outside the master plan of Mandi Gobindgarh.
b. Clarification regarding change of furnace in 2003 & 2014 is required to be provided.

The following general points shall be noted:

i. All documents shall be properly indexed, page numbered.
ii. Period/date of data collection shall be clearly indicated.
iii. The letter/application for environmental clearance shall quote the MOEF / SEIAA file No. and also attach a copy of the letter.
iv. The copy of the letter received from the Ministry / SEIAA shall be also attached as an annexure to the final EIA-EMP Report.
v. The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report.
vi. While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MOEF vide notification dated 03.03.2016 which is available on the website of this Ministry shall also be followed.
vii. The consultants involved in the preparation of EIA-EMP report after accreditation with Quality Council of India (QCI) /National Accreditation Board of Education and Training (NABET) would need to include a certificate in this regard in the EIA-EMP reports prepared by them and data provided by other organization/Laboratories including their status of approvals etc. Name of the Consultant and the Accreditation details shall be posted on the EIA-EMP Report as well as on the cover of the Hard Copy of the Presentation material for EC presentation.
viii. The TORs prescribed shall be valid for a period of three years for submission of the EIA-EMP reports along with Public Hearing Proceedings. TORs' prescribed by the State Expert Appraisal Committee (Industry) shall be considered for preparation of EIA-EMP report for the project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and III A in the EIA Notification, 2006. Where the documents

provided are in a language other than English, an English translation shall be provided. The draft EIA-EMP report shall be submitted to the State Pollution Control Board of the concerned State for conduct of Public Hearing. The SPCB shall conduct the Public Hearing/public consultation, district-wise, as per the provisions of EIA notification, 2006. The Public Hearing shall be chaired by an Officer not below the rank of Additional District Magistrate. The issues raised in the Public Hearing and during the consultation process and the commitments made by the project proponent on the same shall be included separately in EIA-EMP Report in a separate chapter and summarized in a tabular chart with financial budget (capital and revenue) along with time-schedule of implementation for complying with the commitments made. The final EIA report shall be submitted to the SEIAA Punjab for obtaining environmental clearance.

The case is placed before the SEIAA for consideration.

Item No.129.06: Application for issuance of TORs for carrying out EIA study for obtaining Environmental clearance under EIA notification dated 14.09.2006 for expansion of Steel Manufacturing Unit namely "Taksus Steels Pvt. Ltd." at Bhadla Road, 66 KVA Sub Station, Near Grain Market, Distt. Fatehgarh Sahib, Punjab by M/s. Taksus Steels Pvt. Ltd. (Proposal no SIA/PB/IND/22234/ 2018).

The facts of the case are under:-

The project proponent has filed application for issuance of TOR under EIA notification, 2006 for expansion of Steel Manufacturing Unit namely "Taksus Steels Pvt. Ltd." at Bhadla Road, 66 KVA Sub Station, Near Grain Market, Distt. Fatehgarh Sahib, Punjab. The project proponent will replace already installed 01 nos. Induction Furnace of capacity 06 TPH with 2 nos. of Induction Furnaces of capacity 8 TPH each. The project is covered under category 3(a) - Secondary Metallurgical Industries (ferrous & non ferrous) of the Schedule appended to the said notification.

The case was considered by SEAC in its 163rd meeting held on 13.03.2018, which was attended by the following on behalf of project proponent:

(i) Sh. Puneet Kumar, Accounts Manager of the Promoter Company.
(ii) Sh. S. Dutta, FAE, M/s CPTL, Chandigarh, Environment consultant of the promoter company.

Sh. Puneet Kumar submitted an authority letter wherein he has been authorized by Sh. Harish Singla, Director of the company to attend the meeting of SEAC on 13.03.2018. The Authority letter was taken on record by the SEAC. The SEAC allowed the project proponent to present the salient features of the project for issuance of TORs.

Sh. Sumitava Dutta, Environmental Consultant of the promoter company presented the salient features of the project as under: -

The Directors of the company are as under:

1. Mr. Harish Singla (Authorized Signatory)
2. Mr. Mohit Singla

The details of the projects are given in the tabulated form as under:-

S. No.	PARTICULARS	EXISTING	AFTER EXPANSION
A	EXISTING & PROPOSED CAPACITY OF FURNACES		

1	Induction Furnace	1 nos. induction furnace 6 TPH	2 nos. induction furnace 8 TPH each
B	**PRODUCTS**		
1	Steel ingot, Runner & Risers	78 TPD	250 TPD
C	**RAW MATERIAL**		
1	MS Scrap (TPA)	47	113
2	Alloys Scrap(TPA)	33	79
3	Ferro Alloys (TPA)	0.2	0.5
D	**GENERALS**		
1	Project Cost (Crores)	3.05	10.50
2	Land (sqm)	7944.88	7944.88
3	Power (KVA)	2500	3500
4	DG SET (KVA)	63 (1 nos.)	63 & 125 (2 nos.)
5	Manpower (nos)	55	65
E.	**WATER REQUIREMENT** through existing tube well.		
1.	Domestic	2 KLD	4 KLD
2.	Industrial Activities (Makeup Water)	6 KLD	110 KLD
	Total	8 KLD	114 KLD
	Source of Water	Borewell (1 No)	

- The detail of the capacity of furnace and total production at different stages is as under: -

Year of Establishment	Capacity of Furnace	Total Production	Whether covered Under EIA notification or not?
1994	3 TPH Induction Furnace	40 TPD	The Industry does not cover under EIA notification S.O. 1533(E) dated 14.09.2006 because the capacity of induction furnace is less than 5 TPH.
2013	6 TPH Induction Furnace	78 TPD	The Industry does not cover under EIA notification S.O. 3067(E) dated 01.12.2009 because the production capacity of the Industry was < 30,000 TPA.
The actual production for financial year 2016-17 was 12,318.860 MT			

- No Wild Life Sanctuaries, Reserved /Protected Forests or Defense Installations, Rivers and Hill Ranges within 10 km of the project.
- The project falls under industrial zone as per the master plan of Mandi Gobindgarh, Punjab. The land is already in use for industrial purposes.
- No industrial effluent is being generated from the existing industrial unit and even, after expansion, no trade effluent will be generated. Only 6.0 KLD domestic wastewater will be directly discharged into the existing sewer .

- The existing quantity of slag generated is 0.35 TPD and is being used for filling of low lying area. Total quantity of slag after expansion will be 0.8 TPD and will be used in filling of Low lying area.
- 12 kg/day of domestic solid waste is being generated from the existing project & after expansion approx. 15 kg/day of domestic waste will be generated, which will be properly collected and segregated into biodegradable and non-biodegradable waste. The solid waste is being disposed off as per MSW (Management & Handling) Rules, 2016.
- Hazardous waste under category 35.1 of Schedule I @ 12 T/annum is generated and after expansion 17.2 T/annum will be generated and same will be sent to TSDF site for final disposal.
- For the existing unit, the air pollution control device i.e. bag filters at the induction furnace is provided. For proposed unit, adequate APCD's will be provided.
- The Standard TORs prescribed by the MoEF have been proposed.

The SEAC observed that besides TOR already being specified in such projects, following additional points are required to be taken care while preparing EIA report:-

a. The project proponent shall submit certificate from Distt. Town planner with respect site of the industry falls in the industrial zone.
b. Areas within the premises meant for the movement of vehicles and around the weigh bridge should be paved.
c. Use of treated domestic water, cooling tower blow down and DM backwater as makeup water in the cooling tower should be examined and submitted.
d. Use of APCD dust & slag for recovery of zinc & lead should be examined and submitted.
e. Ground water monitoring should be done for heavy metals also in addition to routine parameters. At least three samples i.e. one from within the premises and two from outside the premises of the project.

After detailed deliberations, it was decided to categorize the project into B-1 category and that the project proponent should submit an Environment Impact Assessment Study Report. After further deliberations on the proposed Terms of Reference (TOR) suggested by the project proponent, the Committee approved

the following Terms of Reference for Environmental Impact Assessment Study of the proposed project including above three observations as conditions of TOR and recommended to SEIAA to issue the following TORs: -

A. Executive Summary

B. Introduction

d) Details of the ElA Consultant including NABET accreditation

e) Information about the project proponent

f) Importance and benefits of the project

C. Project Description

i. Cost of project and time of completion.
ii. Products with capacities for the proposed project.
iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
iv. List of raw materials required and their source along with mode of transportation.
v. Other chemicals and materials required with quantities and storage capacities.
vi. Details of Emission, effluents, hazardous waste generation and their management.
vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract).
viii. Process description along with major equipments and machineries, process flow sheet (quantitative) from raw material to products to be provided
ix. Hazard identification and details of proposed safety systems.

D. Expansion/modernization proposals:

i. Status of compliance of Consent to Operate for the ongoing /existing operation of the project from SPCB shall be attached with the EIA-EMP report.
ii. In case the existing project has not obtained environmental 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 SPCB shall be submitted.
iii. Permission from CGWA for abstraction of ground water shall be submitted during submission of its EIA report.
iv. The project proponent shall submit certificate from Distt. Town planner with respect site of the industry falls in the industrial zone.
v. Separate Air Pollution Control Devices will be installed for proposed new equipments i.e. two nos. induction furnace 8 TPH each.
vi. STP shall be provided inside the premises for treatment of domestic waste water instead of proposed septic tank as manpower will increase significantly after expansion.

E. Site Details

i. Location of the project site covering village, Taluka / Tehsil, District and State, Justification for selecting the site, whether other sites were considered. Copy of Master Plan indicating a land use pattern of the site is in conformity of proposals of Master Plan shall be attached with EIA report.

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iv. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.

I. Corporate Environment Policy

i. 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.

ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.

iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.

iv. Does the company have system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

J. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

K. Enterprise Social Commitment (ESC)

i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.

L. 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.

M. A tabular chart with index for point wise compliance of above TORs.

Induction/Arc Furnaces/Cupola Furnaces 5 TPH or More

1. Details of proposed layout clearly demarcating various units within the plant.
2. Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs and outputs (material and energy balance).

3. Details on design and manufacturing process for all the units.
4. 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.
5. Details on requirement of raw materials, its source and storage at the plant.
6. Details on requirement of energy and water along with its source and authorization from the concerned department. Location of water intake and outfall points (with coordinates).
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 chrome slag. Details on the recovery of the Ferro chrome from the slag and its proper disposal.

Air Pollution

Plant /Unit	Pollutants	Qty generated	Method used to Control/and specifications/ attach Separate Sheet to furnish Details	Number of units planned & Capacity	Budget	Estimated Post Control Qty Pollutant	
						Per Unit	Per day

Executive Summary

Executive summary of the report in about 8-10 pages incorporating the following:

i. Project name and location (Village, Dist, State, Industrial Estate (if applicable)
ii. Products and capacities. If expansion proposal then existing products with capacities and reference to earlier EC.
iii. Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative)
iv. Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes.
v. Measures for mitigating the impact on the environment and mode of discharge or disposal.
vi. Capital cost of the project, estimated time of completion
vii. Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt/private land, status of is acquisition, nearby (in 2-3 km.) water body, population, with in 10 km other industries, forest , eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary)
viii. Baseline environmental data - air quality, surface and ground water quality, soil characteristic, flora and fauna, socio-economic condition of the nearby population Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.

ix. Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk
x. Likely impact of the project on air, water, land, flora-fauna and nearby population
xi. Emergency preparedness plan in case of natural or in plant emergencies
xii. Issues raised during public hearing (if applicable) and response given
xiii. CSR plan with proposed expenditure.
xiv. Occupational Health Measures
xv. Post Project monitoring plan

Specific TORs:

a. The project proponent shall submit certificate from Distt. Town planner with respect site of the industry falls in the industrial zone.

The following general points shall be noted:

i. All documents shall be properly indexed, page numbered.
ii. Period/date of data collection shall be clearly indicated.
iii. The letter/application for environmental clearance shall quote the MOEF / SEIAA file No. and also attach a copy of the letter.
iv. The copy of the letter received from the Ministry / SEIAA shall be also attached as an annexure to the final EIA-EMP Report.
v. The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report.
vi. While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MOEF vide notification dated 03.03.2016 which is available on the website of this Ministry shall also be followed.
vii. The consultants involved in the preparation of EIA-EMP report after accreditation with Quality Council of India (QCI) /National Accreditation Board of Education and Training (NABET) would need to include a certificate in this regard in the EIA-EMP reports prepared by them and data provided by other organization/Laboratories including their status of approvals etc. Name of the Consultant and the Accreditation details shall be posted on the EIA-EMP Report as well as on the cover of the Hard Copy of the Presentation material for EC presentation.
viii. The TORs prescribed shall be valid for a period of three years for submission of the EIA-EMP reports along with Public Hearing Proceedings. TORs' prescribed by the State Expert Appraisal Committee (Industry) shall be considered for preparation of EIA-EMP report for the project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and III A in the EIA Notification, 2006. Where the documents provided are in a language other than English, an English translation shall be provided. The draft EIA-EMP report shall be submitted to the State Pollution Control Board of the concerned State for conduct of Public Hearing. The SPCB shall conduct the Public Hearing/public consultation, district-wise, as per the provisions of EIA notification, 2006. The Public Hearing shall be chaired by an Officer not below the rank of Additional District Magistrate. The issues raised in the Public Hearing and during the consultation process and the commitments made by the project proponent on the same shall be included separately in EIA-EMP Report in a separate chapter and summarized in a tabular chart with financial budget (capital and revenue) along with time-schedule of implementation for complying with the commitments made. The final EIA report shall be submitted to the SEIAA Punjab for obtaining environmental clearance.

The case is placed before the SEIAA for consideration.

Item No.129.07: Application for issuance of TORs for carrying out EIA study for obtaining Environmental clearance under EIA notification dated 14.09.2006 for expansion of steel manufacturing unit by replacement/addition of induction furnaces in Village – Ambey Majra, Tehsil. - Sirhind, District Fatehgarh Sahib, Punjab by M/s Bhawani Casting (P) Limited (Proposal no SIA/PB/IND2/22237/ 2018)

The facts of the case are under:-

Earlier, the industry was granted Environmental Clearance by MOEF & CC, New Delhi vide File No. J-11011/398/2011-IA II (I) dated 8th April 2015 for manufacturing of Steel Billets/Ingot @ 72000TPA of steel Billets & 72000TPA of Round, MS Bars, Flats & TMT Bars.

The Project proponent has filed application for issuance of TOR under EIA notification, 2006 for expansion of steel manufacturing unit by replacing existing Induction Furnaces of capacity (10 TPH & 7 TPH) with two no furnaces of 15 TPH each & one number rolling mill in Village – Ambey Majra, Tehsil. - Sirhind, District Fatehgarh Sahib, Punjab. The project is covered under category 3(a) - Secondary Metallurgical Industries (ferrous & non ferrous) of the Schedule appended to the said notification.

Further, in compliance of the circular dated 07.09.2017, the Northern Regional office of MoEF & CC, Chandigarh has been requested vide letter no. 317 dated 08.03.2018 to send the certified compliance report the previously granted Environmental Clearance to the project.

The case was considered by SEAC in its 163rd meeting held on 13.03.2018, which was attended by the following on behalf of project proponent:

(i) Sh. Ashok Aggarwal, Managing Director of the Promoter Company.
(ii) Sh. S. Dutta, FAE, M/s CPTL, Chandigarh, Environment consultant of the promoter company.

The SEAC allowed the project proponent to present the salient features of the project for issuance of TORs. Sh. Sumitava Dutta, Environmental Consultant of the promoter company presented the salient features of the project as under: -

- The Directors of the company are as under:

  Sh. Ashok Kumar Aggarwal

  Sh. Gaurav Gupta

- The details are given in the tabulated form as under:-

Sr. No.	PARTICULARS	EXISTING	PROPOSED	TOTAL
A	**EXISTING & PROPOSED CAPACITY OF FURNACES & ROLLING MILLS**			
1	Induction Furnaces	10 & 7TPH (To be Replaced) & VD, LFR & Concast	Two N. IF 15 TPH each & VD, LFR & Concast	
2	Rolling Mills	1 Rolling Mill	1 Rolling Mill	2 Rolling Mills
B	**PRODUCTS**			
1	Steel Billets (TPA)	72000	34000	1,06,000
2	MS Bars, Round, Flats, TMT Bars(TPA)	72000	34000	1,06,000
C	**RAW MATERIAL**			
1	MS Scrap (TPA)	77760	36720	1,14,480.00
2	Ferro-alloys(TPA)	780	298	1078.00
D	**GENERALS**			
1	Project Cost (Crores)	12	10	22
2	Land (Acres)	5	NIL	5
3	Power (KW)	8380	5620	14000
4	Manpower (nos)	70	55	125
5	Working days	24 hrs 325 working days in year		
E.	**WATER REQUIREMENT** through existing tubewell			
1.	Domestic	10 KLD	5.0 KLD	15 KLD
2.	Cooling (makeup water)	25 KLD	Nil	25 KLD
	Total	35 KLD	5.0 KLD	40 KLD
F	**Waste Water Generation**			
1	Domestic	8.0 KLD	4.0 KLD	12.0 KLD
2	Cooling(makeup water)	RECIRCULATION		
	Total	8.0 KLD	4.0 KLD	12.0 KLD
SOURCE OF WATER		Ground Water (Applied for permission from CGWA)		

- **Area Details**

Total Area	31434.10 sqm
Covered Area	13799.53 sqm
Area under Green Belt/Lawn	10373.25 sqm
Area under Roads/open	7261.32 sqm

- Total cost of the project after expansion is 22 crores.

- No Wildlife Sanctuary & no area of Reserved Forests fall within 10 km radius of the project. The industry is located in designated industrial zone. The land is industrial for which change of land use has been obtained from Department of Town & Country Planning Punjab. No additional land is required for expansion
- There will be no generation of trade effluents from the process. The waste water generated from domestic & cooling tower will be treated through Sewage Treatment Plant and will be used for cooling purpose/ green belt development
- Cooling water will be re-circulated and cooling blow down will be treated through sewage treatment plant and used for plantation.
- Bag filter has been installed on existing induction furnace as APCD. Bag filters will be installed followed by cyclone for the proposed induction furnace
- The existing quantity of slag generated is 6.0 TPD and is being used for filling of low lying area. Total quantity of slag after expansion will be 10.0 TPD and will be used in filling of Low lying area and in Road Making.
- Hazardous waste @ 80ltr/annum is generated from DG sets in the form of used oil which is being re-used as lubricants within the industry and dust after expansion (25 TPA) recovered by APCD will be sent to TSDF site for final disposal.
- Baseline data will be collected by monitoring & surveying of various environmental components / parameters in the core zone during the study period, details of which are given as under:-

S. NO.	PARAMETERS	DESCRIPTION
1	Meteorology	Meteorological parameters on hourly basis at project site. Parameters: Temperature, Relative humidity, Wind Speed & Wind Direction.
2	Air	Ambient air quality monitoring (24 hourly), twice a week. Parameters are PM_{10}, $PM_{2.5}$, SO_2, NO_2 & CO. No. of Locations: 8 locations in core and buffer zone.
3	Noise	Noise level monitoring (Day & Night time), once in a season. No. of Locations: 8 locations in core and buffer zone.
4	Water	Ground water sampling, once in a season. No. of Locations: 8 locations in core and buffer zone. Tested for physical and chemical parameters.

5	Soil	Soil sampling, once in a season. No. of Locations: 6 locations in core and buffer zone.
6	Biological Factors	Biodiversity survey, once in a season. Location: Core and buffer zone.
7	Socio-economic Environment	Socio-economic survey, once in a season. Location: Core and buffer zone.

- The Environmental Impact And Management Plan is given as under:-

PARTICULARS	DETAILS
Impact on Air	
Construction/ Operational Phase	Air emissions both gaseous and fugitive from proposed plant will be on account of process emissions from stacks of existing Induction furnace & proposed Furnace as well as DG. Sets, transportation of men and material. The mitigation measure adopted as under: ➢ The main raw material and product will be brought in and dispatched by road in covered enclosures. ➢ All the vehicle owners will have valid PUC Certificate ➢ All vehicles are loaded up-to prescribed limit during transportation. ➢ Dust suppression on haul roads will be done at regular intervals. ➢ Proper pollution control equipments like Multi-cyclone/bag filter will be provided. ➢ APCD solid waste after expansion will be sent to TSDF site for final Disposal.
Air Quality Management:	
Emissions Management	➢ A stack of adequate height equipped with Bag filter will be installed with the Induction furnace to control the particulate and gaseous emissions due to combustion of fuel. ➢ All the roads are asphalted to control the fugitive dust emissions ➢ Proper servicing & maintenance of vehicles is/will be carried out. ➢ Green Belt around the periphery and within premises will be provided.
Monitoring Management	Ambient air quality and stack emission will be regularly monitored to ensure that ambient air quality standards and suggested limits on stack emission loads would be met honestly at all the time.
Impact on water	
Construction/ Operational phase	Water requirement of the plant will be meeting from existing tube well. Roof top rain water will be recharged to compensate GW.

Water Management	
	➢ Fresh water requirement of the project will be met by existing tube well. ➢ Domestic waste water generated from the plant will be treated in Septic Tank and treated water will be used in green belt development. ➢ The cooling water will be re-circulated and cooling blow down will be dispose off through septic tank.
Impact on Noise	
Construction/ Operational Phase	The expected noise levels of some of the proposed equipment like Pumps (82-95 dB (A), Induction furnace (95-105 dB (A), DG sets (100-120 dB (A). The above noise levels worked out are without mitigation measures. With the mitigation measures the noise levels will be further restricted within very short distance from the source point. The operators/personnel working near the noise sources in the Plant will be provided with earmuffs and earplugs Green belt will be developed around the plant premises which will act as noise abatement measures.
Noise Management	
	➢ There will be no danger of noise pollution from plant. The green belt (plantation of dense trees across the boundary) helps in reducing noise levels in distillery plant as a result of attenuation of noise generated due to plant operations and transportation. ➢ Earmuffs will be used while running the equipments of the plant. ➢ D.G sets will be provided with acoustic to control the noise level within the prescribed limit. ➢ A high standard of maintenance will be practiced for plant machinery and equipments, which helps to avert potential noise problems. ➢ Personal Protective Equipment like earplugs and earmuffs will be provided to the workers exposed to high noise level. ➢ Regular monitoring of noise level will be carried out.
Solid Waste Management	
Management	➢ APCD dust is being sent to TSDF site and slag from process is sent to low lying area for final disposal.
Green belt Management	
Management	➢ Green belt development in and around the plant site helps to attenuate the pollution level. ➢ Out of the total plant area approx. 15% land is already developed as green belt and it will be maintained in future also. ➢ Green belt has been developed as per Central Pollution

	Control Board (CPCB) guidelines. ➢ Native species have been planted in consultation with the local DFO.

- The cost@ 80.0 lacs towards Environment Protection will be spent and plant manager will be responsible for implementation of EMP.
- The Standard TORs prescribed by the MoEF have been proposed.

Environmental Consultant of the Promoter industry made a request to allow them to prepare EIA report by carrying out common monitoring in buffer zone in case of this industry & another industry namely M/s Salasar Casting Pvt. Ltd., Village Mullanpur Kalan, Tehsil Sirhind, District Fatehgarh Sahib, Punjab as the sites of both the industries fall within 500 m radius of each other and showed the location of both the industries on toposheet. He further requested for issuance of TOR. The case for issuance of TORs of other industry is listed against Item No. 163.11 of this Agenda. The SEAC accepted the request of Environmental Consultant and allowed them to carry out common monitoring in the buffer zone for the purpose of collecting base line data to prepare EIA report in case of these two industries. However, separate monitoring shall be carried out in the core zone of both the industrial projects.

The SEAC observed that besides TOR already being specified in such projects, following additional points are required to be taken care while preparing EIA report:-

a. Areas within the premises meant for the movement of vehicles and around the weigh bridge should be paved.
b. Use of treated domestic water as makeup cooling water should be examined and submitted.
c. Use of APCD dust & slag for recovery of zinc & lead should be examined and submitted.
d. Ground water monitoring should be done for heavy metals in addition to routine parameters. At least three samples i.e. one from within the premises and two from outside the premises of the project.
e. Low cost instruments, 02 no. costing about Rs. 50,000/- each, may be purchased in consultation with Dr. M.S. Bhatti, Member SEAC and installed within the premises by the project proponent and

Continuous/Real time monitoring data should be carried out and incorporated in the EIA report. To this TOR, the consultant submitted that continuous monitoring instrument cost about Rs. 60-70 Lacs each and it may not be possible for them to purchase such costly instruments. But further submitted that if any such low cost instruments are available as informed by Dr. M.S. Bhatti, Member SEAC they will purchase the same and carry out the continuous monitoring. They agreed to consult Mr. M S Bhatti in this regard.

After detailed deliberations, it was decided to categorize the project into B-1 category and that the project proponent should submit an Environment Impact Assessment Study Report. After further deliberations on the proposed Terms of Reference (TOR) suggested by the project proponent, the Committee approved the following Terms of Reference for Environmental Impact Assessment Study of the proposed project including above three observations as conditions of TOR and recommended to SEIAA to issue the following TORs :-

A. Executive Summary

B. Introduction

   g) Details of the ElA Consultant including NABET accreditation

   h) Information about the project proponent

   i) Importance and benefits of the project

C. Project Description

   i. Cost of project and time of completion.
   ii. Products with capacities for the proposed project.
   iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
   iv. List of raw materials required and their source along with mode of transportation.
   v. Other chemicals and materials required with quantities and storage capacities.
   vi. Details of Emission, effluents, hazardous waste generation and their management.
   vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract).
   viii. Process description along with major equipments and machineries, process flow sheet (quantitative) from raw material to products to be provided
   ix. Hazard identification and details of proposed safety systems.

D. Expansion/modernization proposals:

i. Copy of the Environmental Clearance(s) including Amendments thereto obtained for the project from MoEF & CC /SElAA 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 7 Sept.2017 on the status of compliance of conditions stipulated in the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing /existing operation of the project from SPCB shall be attached with the EIA-EMP report.

ii. In case the existing project has not obtained environmental 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 SPCB shall be submitted.

iii. Permission from CGWA for abstraction of ground water shall be submitted during submission of its EIA report.

iv. Separate Air Pollution Control Devices will be installed for proposed new equipments i.e. Laddle Furnace & Vaccum Degasser or any other..

v. STP shall be provided inside the premises for treatment of domestic waste water instead of proposed septic tank as manpower will increase significantly after expansion.

E. Site Details

i. Location of the project site covering village, Taluka / Tehsil, District and State, Justification for selecting the site, whether other sites were considered. Copy of Master Plan indicating a land use pattern of the site is in conformity of proposals of Master Plan shall be attached with EIA report.

ii. A topo sheet of the study area of radius of 10 km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (Including all eco-sensitive areas and environmentally sensitive places)

iii. Co-ordinates (lat-long) of all four corners of the site.

iv. Google map-Earth downloaded of the project site

v. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. I f located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.

vi. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.

vii. Land use break-up of total land of the project site (identified and acquired), government/private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)

viii. A list of major industries with name and type within study area (10 km radius) shall be incorporated. Land use details of the study area.

ix. Geological features and Geo-hydrological status of the study area shall be included.

x. Details of Drainage of the project up to 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)

xi. Status of acquisition of land. lf acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.

xii. R&R details in respect of land in line with state Government policy

F. Forest and wildlife related issues (if applicable):

vii. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable).

viii. Land use map based on High resolution satellite imagery (OPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha).

ix. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.

x. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-a-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon.

xi. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area.

xii. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.

G. Environmental Status

i. Determination of atmospheric inversion level at the project site and site specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.

ii. AAQ data (except monsoon) at 8 locations for PMI 0, PM2.5, S02, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre dominant wind direction, population zone and sensitive receptors including reserved forests.

iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 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.

iv. Surface water quality of nearby River (60m upstream and downstream) and other surface drains at eight locations as per CPCB/MoEF & CC guidelines. Whether the site falls near to polluted stretch of river identified by the · CPCB/MoEF & CC.

v. Ground water monitoring at minimum at 8 locations shall be included. Ground water monitoring should be done for heavy metals in addition to routine

parameters. At least three samples i.e. one from within the premises and two from outside the premises of the project.

vi. Noise levels monitoring at 8 locations within the study area.

vii. Soil Characteristic as per CPCB guidelines.

viii. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, road width, parking arrangement etc. Areas within the premises meant for the movement of vehicles and around the weigh bridge should be paved.

ix. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.

x. Socio-economic status of the study area.

H. Impact Assessment and Environment Management Plan

i. Assessment of ground level concentration of pollutants from the stack · emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modeling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be well assessed. Details of the model used and the input data used for modeling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.

ii. Water Quality modelling

iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor-cum-rail transport shall be examined.

iv. A note on treatment, recycling and reuse of wastewater from different plant operations, extent for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under EPA Rules. Use of treated domestic water as makeup cooling water should be examined and submitted.

v. Details of stack emission and action plan for control of emissions to meet standards.

vi. Measures for fugitive emission control

vii. Details of hazardous waste generation and their storage, utilization and disposal. Copies of MOU regarding utilization of solid and hazardous waste shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.

viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.

ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1 ,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. Shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.

x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.

xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.

xii. Action plan for post-project environmental monitoring shall be submitted.

xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

xiv. Examine and submit the proposal for:-

a. Recovery of iron from slag before disposing it off.
b. Identify the areas for disposal of slag in scientific manner and study the alternate uses of slag.
c. Use of APCD dust and slag for recovery of zinc and lead.

I. Occupational health

i. Details of existing Occupational & Safety Hazards. What are the exposure levels of above mentioned hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,

ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of abovementioned parameters as per age, sex, duration of exposure and department wise.

iii. Annual report of health status of workers with special reference to Occupational Health and Safety.

iv. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.

J. Corporate Environment Policy

i. 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.

ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.

iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.

iv. Does the company have system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the company and / or

shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

K. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

L. Enterprise Social Commitment (ESC)

i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.

M. 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.

N. A tabular chart with index for point wise compliance of above TORs.

INDUCTION/ARC FURNACES/CUPOLA FURNACES 5 TPH OR MORE

1. Details of proposed layout clearly demarcating various units within the plant.
2. Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs and outputs (material and energy balance).
3. Details on design and manufacturing process for all the units.
4. 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.
5. Details on requirement of raw materials, its source and storage at the plant.
6. Details on requirement of energy and water along with its source and authorization from the concerned department. Location of water intake and outfall points (with coordinates).
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 chrome slag. Details on the recovery of the Ferro chrome from the slag and its proper disposal.

Air Pollution

Plant /Unit	Pollutants	Qty generated	Method used to Control/and specifications/ attach Separate	Number of units planned & Capacity	Budget	Estimated Post Control Qty Pollutant

			Sheet to furnish Details				
						Per Unit	Per day

Executive Summary

Executive summary of the report in about 8-10 pages incorporating the following:

i. Project name and location (Village, Dist, State, Industrial Estate (if applicable)
ii. Products and capacities. If expansion proposal then existing products with capacities and reference to earlier EC.
iii. Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative)
iv. Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes.
v. Measures for mitigating the impact on the environment and mode of discharge or disposal.
vi. Capital cost of the project, estimated time of completion
vii. Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt./private land, status of is acquisition, nearby (in 2-3 km.) water body, population, with in 10 km other industries, forest , eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary)
viii. Baseline environmental data - air quality, surface and ground water quality, soil characteristic, flora and fauna, socio-economic condition of the nearby population Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.
ix. Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk
x. Likely impact of the project on air, water, land, flora-fauna and nearby population
xi. Emergency preparedness plan in case of natural or in plant emergencies
xii. Issues raised during public hearing (if applicable) and response given
xiii. CSR plan with proposed expenditure.
xiv. Occupational Health Measures
xv. Post Project monitoring plan

Specific TORs:

a) Low cost instruments, 02 no. costing about Rs. 50,000/- each, if available, may be purchased in consultation with Dr. M.S. Bhatti, Member SEAC and installed within the premises by the project proponent and Continuous/Real time monitoring data should be carried out and incorporated in the EIA report.
b) Environmental Consultant of the Promoter Industries namely M/s Bhawani Casting Pvt. Ltd., Village Ambey Majra, Tehsil Sirhind, District Fatehgarh Sahib, Punjab & M/s Salasar Castings, village- Mullanpur Kalan, Tehsil- Sirhind, District- Fatehgarh Sahib, Punjab & may carry out common monitoring in the buffer zone for the propose

of collecting based line data to prepare EIA report in case of these two industries. However, separate monitoring shall be carried out in the core zone of both industrial projects.

c) Certified compliance report of the previously granted Environmental Clearance from the Northern Regional office, Chandigarh of the Ministry as sought by SEAC vide letter no. 317 dated 08.03.2018, shall be submitted.

The following general points shall be noted:

i. All documents shall be properly indexed, page numbered.
ii. Period/date of data collection shall be clearly indicated.
iii. The letter/application for environmental clearance shall quote the MOEF & CC / SEIAA file No. and also attach a copy of the letter.
iv. The copy of the letter received from the Ministry / SEIAA shall be also attached as an annexure to the final EIA-EMP Report.
v. The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report.
vi. While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MOEF & CC vide notification dated 03.03.2016 which is available on the website of this Ministry shall also be followed.
vii. The consultants involved in the preparation of EIA-EMP report after accreditation with Quality Council of India (QCI) /National Accreditation Board of Education and Training (NABET) would need to include a certificate in this regard in the EIA-EMP reports prepared by them and data provided by other organization/Laboratories including their status of approvals etc. Name of the Consultant and the Accreditation details shall be posted on the EIA-EMP Report as well as on the cover of the Hard Copy of the Presentation material for EC presentation.
viii. The TORs prescribed shall be valid for a period of three years for submission of the EIA-EMP reports along with Public Hearing Proceedings. TORs prescribed by the State Expert Appraisal Committee (Industry) shall be considered for preparation of EIA-EMP report for the project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and III A in the EIA Notification, 2006. Where the documents provided are in a language other than English, an English translation shall be provided. The draft EIA-EMP report shall be submitted to the State Pollution Control Board of the concerned State for conduct of Public Hearing. The SPCB shall conduct the Public Hearing/public consultation, district-wise, as per the provisions of EIA notification, 2006. The Public Hearing shall be chaired by an Officer not below the rank of Additional District Magistrate. The issues raised in the Public Hearing and during the consultation process and the commitments made by the project proponent on the same shall be included separately in EIA-EMP Report in a separate chapter and summarized in a tabular chart with financial budget (capital and revenue) along with time-schedule of implementation for complying with the

commitments made. The final EIA report shall be submitted to the SEIAA Punjab for obtaining environmental clearance.

The monitoring, conducting of public hearing & preparation of EIA report will be carried out by the project proponent at his risk & cost and incase MoEF & CC reports any violation of the conditions of EC, the project proponent will not stake any claim to get the EIA report appraised by the SEAC and grant of environmental clearance thereafter.

The case is placed before the SEIAA for consideration.

Item No.129.08: Application for issuance of TORs for carrying out EIA study for obtaining Environmental clearance under EIA notification dated 14.09.2006 for expansion of mild steel billets manufacturing unit located in the revenue estate of Village Akalgarh and Bhagwanpura, Tehsil Nabha and Amloh, District Patiala and Fatehgarh Sahib,Punjab by M/s Madhav Alloys Pvt. Limited(Proposal no SIA/PB/IND/22288/ 2018).

The facts of the case are under:-

Earlier, the promoter company was granted environmental clearance for the establishment of mild steel billets manufacturing unit of 3,00,000 MTPA capacity at Village Akalgarh and Bhagwanpura, Tehsil Nabha and Amloh, District Patiala and Fatehgarh Sahib in Punjab vide letter no J-11011/406/2010-IA-II (I) dated 16.03.2012 by the MoEF & CC , New Delhi.

The project proponent has filed application for issuance of TOR under EIA notification, 2006 for expansion of mild steel billets manufacturing unit located in the revenue estate of Village Akalgarh and Bhagwanpura, Tehsil Nabha and Amloh, District Patiala and Fatehgarh Sahib, Punjab. The project is covered under category 3(a) - Metallurgical Industries (ferrous & non-ferrous) of the Schedule appended to the said notification. The details of the document submitted with the application are as under:-

1.	Properly filled Form 1 and basic information	Yes
2.	Pre-feasibility Report	Submitted
3.	Proof of ownership of land	Submitted
4.	Copy of Memorandum of Article & Association / partnership deed / undertaking of sole proprietorship / list of Directors and names of other persons responsible for managing the day-to-day affairs of the project.	Submitted
5.	Draft ToRs	Submitted
6.	List of accredited EIA consultant organization with accredited sector of NABET	Submitted

As per requirement of OM dated 07.09.2017 issued by MoEF & CC, New Delhi, the Northern Regional office, Chandigarh of the Ministry has been has been requested vide letter no. 319 dated 09.03.2018 to send the certified compliance report the previously granted Environmental Clearance to the project.

The case was considered by SEAC in its 163rd meeting held on 13.03.2018, which was attended by the following on behalf of project proponent:

(i) Sh. Rajesh Jindal, Executive Director of the Promoter Company.

(ii) Sh. S. Dutta, FAE, M/s CPTL, Chandigarh, Environment consultant of the promoter company.

The SEAC allowed the project proponent to present the salient features of the project for issuance of TORs. Sh. Sumitava Dutta, Environmental Consultant of the promoter company presented the salient features of the project as under: -

S. No.	PARTICULARS	EXISTING	PROPOSED	TOTAL
A	**EXISTING & PROPOSED CAPACITY OF FURNACES & ROLLING MILLS**			
1	Induction Furnace	2X25T, LRF, Concast	3X25TPH Induction furnace, LRF &Concast	
2	Rolling Mills	1 Rolling Mill	Nil	1 Rolling Mills
B	**PRODUCTS**			
1	MS Billets (TPA)	**3,00,000**	**2,25,000**	5,25,000
2	TMT Bars (TPA)	2,50,000	2,75,000	5,25,000
C	**RAW MATERIAL**			
1	MS Scrap (TPA)	2,80,700	212150	492850
2	Ferro-alloys(TPA)& Sponge, DRI	49,000	35450	84450
D	**Water requirement**			
	Domestic	32 KLD	5 KLD	37 KLD
	Cooling (makeup water)	150 KLD	75 KLD	225 KLD
	Others	30 KLD	15 KLD	45 KLD
	Total	212 KLD	95 KLD	307 KLD
E	**GENERALS**			
1	Project Cost (Crores)	125.4	12.70	138.15
2	Land (Acres)	22.08	NIL	22.08
3	Power (MW)	30	11	41
4	DG set	1200 KVA	600 KVA	1800 KVA
5	Manpower (nos)	754	104	858
6	Working days	24 hrs 350 working days in year		

F	**Waste Water generation**			
1	Domestic	26 KLD	4 KLD	30 KLD
2	Cooling (makeup water)	RECIRCULATION		
3	Others	28.5 KLD	15 KLD	43.5 KLD
	Total	54.5 KLD	19 KLD	73.5 KLD

- The industry has been granted consent to operate under Water Act, 1974 and Air Act, 1981 for the manufacturing of TMT Bars @ 250000 MTA & MS Billets @ 200000 MTA by using Sponge iron @110 MTD, Alloys @ 9 MTD, Nacl @ 0.2 MTD & MS Scrap @ 670 MTD as raw material by the Punjab Pollution Control Board, which are valid up to 31.03.2022
- No Wildlife Sanctuary &no Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains & reserve forest area fall within 10 km radius of the project. Industrial Land is registered in name of project proponent. The land is already used for industrial purposes. No additional land required for expansion. There will be no change in the land Use.
- Existing fresh water requirement for the unit is 212 KLD. Additional 5 KLD fresh water for domestic purposes, 75 KLD fresh water for cooling purposes and 15 KLD fresh water for other purposes will be utilized. Thus, after expansion, the total daily fresh water demand including the existing requirement will be 307 KLD. Water required for the coil cooling of induction furnace is soft water quality and same is in the close loop water cooling system. No cooling waste is being discharged. Water requirement met through existing tube well.
- After expansion, 20 KLD waste water will be increased out of which 15 KLD from blow down/softening plant and 5 KLD from domestic effluent. Effluent treatment plant of capacity 45 KLD has already been installed for treatment of waste water generated from softening plant process. The waste water generated from domestic & cooling tower is being treated through Sewage Treatment and ETP plant of capacity 30 KLD and is being used for plantation within premises.
- **HAZARDOUS/SOLID WASTE:**

  Existing: -

  25T of slag is being used in filling of Low lying area and in road making. Used oil from DG (100 liter/annum) sets is used as lubricants in the industry. 1.03TPD dust from APCD is being store in the impervious tank and same is sent to TSDF. Sludge generated (7 kg/annum) from ETP is being stored in impervious pit & disposed off as per norms of state pollution control board.

  After Expansion: -

The total quantity of slag after expansion will be 82.5 TPD and will be used for filling of low lying area. The project proponent will install one new DG set under expansion and after expansion the quantity of hazards waste will be 150 Liters/annum. APCD dust after expansion will be 5 TPD and will be sent to TSDF. ETP Sludge after expansion will be 12 Kg /Annum.

- Rs. 150.0 lacs towards Environment Protection will be spent.
- Baseline data for the proposed plant will collected immediately after monsoon season. Primary data will be collected by monitoring & surveying of various environmental components/ parameters in the core zone during the study period, details of which are given as under:-

S. NO.	PARAMETERS	DESCRIPTION
1	Meteorology	Meteorological parameters on hourly basis at project site. Parameters: Temperature, Relative humidity, Wind Speed & Wind Direction.
2	Air	Ambient air quality monitoring (24 hourly), twice a week. Parameters are PM_{10}, $PM_{2.5}$, SO_2, NO_2& CO. No. of Locations: 8 locations in core and buffer zone.
3	Noise	Noise level monitoring (Day & Night time), once in a season. No. of Locations: 8 locations in core and buffer zone.
4	Water	Ground water sampling, once in a season. No. of Locations: 8 locations in core and buffer zone. Tested for physical and chemical parameters.
5	Soil	Soil sampling, once in a season. No. of Locations: 6 locations in core and buffer zone.
6	Biological Factors	Biodiversity survey, once in a season. Location: Core and buffer zone.
7	Socio-economic Environment	Socio-economic survey, once in a season. Location: Core and buffer zone.

The Environmental Impact and Management Plan is given as under:

PARTICULARS	DETAILS
Impact on Air	
Construction/ Operational Phase	Air emissions both gaseous and fugitive from proposed plant will be on account of process emissions from stacks of existing Induction furnace & proposed Furnace as well as DG. Sets. The mitigation measure adopted as under: ➢ The main raw material and product will be brought in and dispatched by road through covered enclosures. ➢ All the vehicle owners will have valid PUC Certificate

	➢ All vehicles are loaded up-to prescribed limit during transportation. ➢ Dust suppression on haul roads will be done at regular intervals. ➢ Latest technology pollution control equipments like Multi-cyclone/bag filter is/will be provided.

Air Quality Management:	
Emissions Management	➢ A stack of 40mt height equipped with Bag filter is/will installed with the Induction furnace to control the particulate and gaseous emissions due to combustion of fuel. ➢ All the roads are asphalted to control the fugitive dust emissions ➢ Proper servicing & maintenance of vehicles is/will be carried out. ➢ Green Belt around the periphery and within premises is/will be provided.
Monitoring Management	Ambient air quality and stack emission will be regularly monitored to ensure that ambient air quality standards and suggested limits on stack emission loads would be met honestly at all the time.
Impact on water	
Construction/ Operational phase	Water requirement of the plant will be meeting from existing tube well. Roof top rain water will be recharged to compensate ground water.
Water Management	
	➢ Fresh water requirement of the project will be met by existing tube well. ➢ Domestic waste water generated from the plant is/will be treated in Sewage treatment Plant and treated water is/will be used in green belt development. ➢ The cooling water will be re-circulated and cooling blow down will be dispose off through Effluent Treatment Plant. ➢ Effluent Treatment Plant is already installed for treatment of trade effluent generated from cleaning process.
Impact on Noise	
Construction/ Operational Phase	The expected noise levels of some of the proposed equipment like Pumps (82-95 dB (A), Induction furnace (95-105 dB (A), DG sets (100-120 dB (A). The above noise levels worked out are without mitigation measures. With the mitigation measures the noise levels will be further restricted within very short distance from the source point.

	The operators/personnel working near the noise sources in the Plant will be provided with earmuffs and earplugs Green belt will be developed around the plant premises which will act as noise abatement measures.
Noise Management	
	➢ There will be no danger of noise pollution from plant. The green belt (plantation of dense trees across the boundary) helps in reducing noise levels in steel plant as a result of attenuation of noise generated due to plant operations and transportation. ➢ Earmuffs will be used while running the equipments of the plant. ➢ D.G sets will be provided with acoustic to control the noise level within the prescribed limit. ➢ A high standard of maintenance will be practiced for plant machinery and equipments, which helps to avert potential noise problems. ➢ Personal Protective Equipment like earplugs and earmuffs will be provided to the workers exposed to high noise level. ➢ Regular monitoring of noise level will be carried out.
Solid Waste Management	
Management	➢ APCD dust is being sent to TSDF. and slag from process is/will send to low lying area for final disposal.
Green belt Management	
Management	➢ Green belt development in and around the plant site helps to attenuate the pollution level. ➢ Out of the total plant area approx. 25% land is already developed as green belt and it will be maintained in future also. ➢ Green belt has been developed as per Central Pollution Control Board (CPCB) guidelines. ➢ Native species have been planted in consultation with the local DFO.

- The Standard TORs prescribed by the MoEF & CC have been proposed.
- The project proponent has requested for the exemption from the public hearing as under:
  (i) That the project proponent have already conducted two public hearing one each for District Patiala and Fatehgarh Sahib for installation of 4 induction furnaces and has achieved the production capacities with 2 induction furnaces.

(ii) That in the proposed expansion, only 01 additional induction furnace shall be installed and thus, in totality 03 induction furnaces will be installed which is less than 04 induction furnaces for which public hearing has already been carried out.

The SEAC noticed that the public hearing was conducted in year 2011 and therefore, request for the exemption from the public hearing could not be considered. The SEAC observed that besides TOR already being specified in such projects, following additional points are required to be taken care while preparing EIA report: -

a. The project proponent shall submit the NOC from the PPCB as the site is outside the master plan of Mandi Gobindgarh.
b. Areas within the premises meant for the movement of vehicles and around the weigh bridge should be paved.
c. Use of treated domestic water as makeup cooling water should be examined and submitted
d. Use of APCD dust & slag for recovery of zinc & lead should be examined and submitted.
e. Ground water monitoring should be done for heavy metals also in addition to routine parameters. At least three samples i.e. one from within the premises and two from outside the premises of the project.
f. Low cost instruments, 02 no. costing about Rs. 50,000/- each, may be purchased in consultation with Dr. M.S. Bhatti, Member SEAC and installed within the premises by the project proponent and Continuous/Real time monitoring data should be carried out and incorporated in the EIA report. To this TOR, the consultant submitted that continuous monitoring instrument cost about Rs. 60-70 Lacs each and it may not be possible for them to purchase such costly instruments. But further submitted that if any such low cost instruments are available as informed by Dr. M.S. Bhatti, Member SEAC they will purchase the same and carry out the continuous monitoring. They agreed to consult Mr. M S Bhatti in this regard.

After detailed deliberations, it was decided to categorize the project into B-1 category and that the project proponent should submit an Environment Impact Assessment Study Report. After further deliberations on the proposed Terms

of Reference (TOR) suggested by the project proponent, the Committee approved the following Terms of Reference for Environmental Impact Assessment Study of the proposed project including above three observations as conditions of TOR and recommended to SEIAA to issue the following TORs :-

A. Executive Summary

B. Introduction

   a) Details of the ElA Consultant including NABET accreditation

   b) Information about the project proponent

   c) Importance and benefits of the project

C. Project Description

   i. Cost of project and time of completion.
   ii. Products with capacities for the proposed project.
   iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
   iv. List of raw materials required and their source along with mode of transportation.
   v. Other chemicals and materials required with quantities and storage capacities.
   vi. Details of Emission, effluents, hazardous waste generation and their management.
   vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract).
   viii. Process description along with major equipments and machineries, process flow sheet (quantitative) from raw material to products to be provided
   ix. Hazard identification and details of proposed safety systems.

D. Expansion/modernization proposals:

   i. Copy of the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF & CC /SElAA 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 7 Sept.2017 on the status of compliance of conditions stipulated in the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing /existing operation of the project from SPCB shall be attached with the EIA-EMP report.
   ii. In case the existing project has not obtained environmental 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 SPCB shall be submitted.
   iii. Permission from CGWA for abstraction of ground water shall be submitted during submission of its EIA report.

iv. Separate Air Pollution Control Devices will be installed for proposed new equipments i.e. Laddle Furnace & Vaccum Degasser or any other.

v. STP shall be provided inside the premises for treatment of domestic waste water instead of proposed septic tank as manpower will increase significantly after expansion.

E. Site Details

i. Location of the project site covering village, Taluka / Tehsil, District and State, Justification for selecting the site, whether other sites were considered. Copy of Master Plan indicating a land use pattern of the site is in conformity of proposals of Master Plan shall be attached with EIA report.

ii. A topo sheet of the study area of radius of 10 km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (Including all eco-sensitive areas and environmentally sensitive places)

iii. Co-ordinates (lat-long) of all four corners of the site.

iv. Google map-Earth downloaded of the project site

v. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. I f located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.

vi. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.

vii. Land use break-up of total land of the project site (identified and acquired), government/private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)

viii. A list of major industries with name and type within study area (10 km radius) shall be incorporated. Land use details of the study area.

ix. Geological features and Geo-hydrological status of the study area shall be included.

x. Details of Drainage of the project up to 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)

xi. Status of acquisition of land. lf acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.

xii. R&R details in respect of land in line with state Government policy

F. Forest and wildlife related issues (if applicable):

i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable).

ii. Land use map based on High resolution satellite imagery (OPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha).

iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.

iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project

proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-a-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon.

v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area.

vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.

G. Environmental Status

i. Determination of atmospheric inversion level at the project site and site specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.

ii. AAQ data (except monsoon) at 8 locations for PMI 0, PM2.5, S02, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre dominant wind direction, population zone and sensitive receptors including reserved forests.

iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 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.

iv. Surface water quality of nearby River (60m upstream and downstream) and other surface drains at eight locations as per CPCB/MoEF & CC guidelines. Whether the site falls near to polluted stretch of river identified by the · CPCB/MoEF & CC.

v. Ground water monitoring at minimum at 8 locations shall be included. Ground water monitoring should be done for heavy metals in addition to routine parameters. At least three samples i.e. one from within the premises and two from outside the premises of the project.

vi. Noise levels monitoring at 8 locations within the study area.

vii. Soil Characteristic as per CPCB guidelines.

viii. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, road width, parking arrangement etc. Areas within the premises meant for the movement of vehicles and around the weigh bridge should be paved.

ix. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.

x. Socio-economic status of the study area.

H. Impact Assessment and Environment Management Plan

i. Assessment of ground level concentration of pollutants from the stack · emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modeling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be well assessed. Details of the model used and the input data used for modeling shall also be provided. The

air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.

ii. Water Quality modelling.

iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor-cum-rail transport shall be examined.

iv. A note on treatment, recycling and reuse of wastewater from different plant operations, extent for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under EPA Rules. Use of treated domestic water as makeup cooling water should be examined and submitted.

v. Details of stack emission and action plan for control of emissions to meet standards.

vi. Measures for fugitive emission control

vii. Details of hazardous waste generation and their storage, utilization and disposal. Copies of MOU regarding utilization of solid and hazardous waste shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.

viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.

ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1 ,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. Shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.

x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.

xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.

xii. Action plan for post-project environmental monitoring shall be submitted.

xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

xv. Examine and submit the proposal for:-

a) Recovery of iron from slag before disposing it off.

b) Identify the areas for disposal of slag in scientific manner and study the alternate uses of slag.

c) Use of APCD dust and slag for recovery of zinc and lead.

I. Occupational health

i. Details of existing Occupational & Safety Hazards. What are the exposure levels of above mentioned hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the

company has adopted to keep them within PEL so that health of the workers can be preserved,

ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of abovementioned parameters as per age, sex, duration of exposure and department wise.

iii. Annual report of health status of workers with special reference to Occupational Health and Safety.

iv. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.

J. Corporate Environment Policy

i. 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.

ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.

iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.

iv. Does the company have system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

K. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

L. Enterprise Social Commitment (ESC)

i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.

M. 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.

N. A tabular chart with index for point wise compliance of above TORs.

INDUCTION/ARC FURNACES/CUPOLA FURNACES 5 TPH OR MORE

1. Details of proposed layout clearly demarcating various units within the plant.
2. Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs and outputs (material and energy balance).
3. Details on design and manufacturing process for all the units.
4. 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.
5. Details on requirement of raw materials, its source and storage at the plant.

6. Details on requirement of energy and water along with its source and authorization from the concerned department. Location of water intake and outfall points (with coordinates).
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 chrome slag. Details on the recovery of the Ferro chrome from the slag and its proper disposal.

Air Pollution

Plant /Unit	Pollutants	Qty generated	Method used to Control/and specifications/ attach Separate Sheet to furnish Details	Number of units planned & Capacity	Budget	Estimated Post Control Qty Pollutant	
						Per Unit	Per day

Executive Summary

Executive summary of the report in about 8-10 pages incorporating the following:

i. Project name and location (Village, Dist, State, Industrial Estate (if applicable)
ii. Products and capacities. If expansion proposal then existing products with capacities and reference to earlier EC.
iii. Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative)
iv. Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes.
v. Measures for mitigating the impact on the environment and mode of discharge or disposal.
vi. Capital cost of the project, estimated time of completion
vii. Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt./private land, status of is acquisition, nearby (in 2-3 km.) water body, population, with in 10 km other industries, forest , eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary)
viii. Baseline environmental data - air quality, surface and ground water quality, soil characteristic, flora and fauna, socio-economic condition of the nearby population Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.
ix. Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk
x. Likely impact of the project on air, water, land, flora-fauna and nearby population
xi. Emergency preparedness plan in case of natural or in plant emergencies
xii. Issues raised during public hearing (if applicable) and response given
xiii. CSR plan with proposed expenditure.

xiv. Occupational Health Measures
xv. Post Project monitoring plan

Specific TORs:

a. The project proponent shall submit the NOC from the PPCB as the site is located outside the master plan of Mandi Gobindgarh.
b. Low cost instruments, 02 no. costing about Rs. 50,000/- each, if available, may be purchased in consultation with Dr. M.S. Bhatti, Member SEAC and installed within the premises by the project proponent and Continuous/Real time monitoring data should be carried out and incorporated in the EIA report.
c. Certified compliance report of the previously granted Environmental Clearance from the Northern Regional office, Chandigarh of the Ministry as sought by SEAC vide letter no. 319 dated 09.03.2018, shall be submitted.

The following general points shall be noted:

i. All documents shall be properly indexed, page numbered.
ii. Period/date of data collection shall be clearly indicated.
iii. The letter/application for environmental clearance shall quote the MOEF & CC / SEIAA file No. and also attach a copy of the letter.
iv. The copy of the letter received from the Ministry / SEIAA shall be also attached as an annexure to the final EIA-EMP Report.
v. The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report.
vi. While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MOEF & CC vide notification dated 03.03.2016 which is available on the website of this Ministry shall also be followed.
vii. The consultants involved in the preparation of EIA-EMP report after accreditation with Quality Council of India (QCI) /National Accreditation Board of Education and Training (NABET) would need to include a certificate in this regard in the EIA-EMP reports prepared by them and data provided by other organization/Laboratories including their status of approvals etc. Name of the Consultant and the Accreditation details shall be posted on the EIA-EMP Report as well as on the cover of the Hard Copy of the Presentation material for EC presentation.
viii. The TORs prescribed shall be valid for a period of three years for submission of the EIA-EMP reports along with Public Hearing Proceedings. TORs' prescribed by the State Expert Appraisal Committee (Industry) shall be considered for preparation of EIA-EMP report for the project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and III A in the EIA Notification, 2006. Where the documents provided are in a language other than English, an English translation shall be provided. The draft EIA-EMP report shall be submitted to the State Pollution Control Board of the concerned State for conduct of Public Hearing. The SPCB shall conduct the Public Hearing/public consultation, district-wise, as per the provisions of EIA notification, 2006. The Public Hearing shall be chaired by an Officer not below the rank of Additional District Magistrate. The issues raised in the Public Hearing and during the consultation process and the commitments made by the project proponent on the same shall be included separately in EIA-EMP Report in a separate chapter and summarized in a tabular chart with financial budget (capital and

revenue) along with time-schedule of implementation for complying with the commitments made. The final EIA report shall be submitted to the SEIAA Punjab for obtaining environmental clearance.

The monitoring, conducting of public hearing & preparation of EIA report will be carried out by the project proponent at his risk & cost and incase MoEF & CC reports any violation of the conditions of EC, the project proponent will not stake any claim to get the EIA report appraised by the SEAC and grant of environmental clearance thereafter.

The case is placed before the SEIAA for consideration.

Item No.129.09: Application for obtaining ToRs for carrying out EIA study for obtaining environmental clearance under EIA notification dated 14.09.2006 for expansion of a Residential Apartment Complex namely "Jalandhar Heights-II" in the revenue estate of Village Pholriwal, Tehsil & District Jalandhar, Punjab by M/s A.G.I. Infra Limited. (Proposal no.SIA/PB/NCP/22280/2018)

The facts of the case are under:-

Earlier, M/s A.G.I. Infra Limited was granted environmental clearance for construction of residential apartment complex namely "Jalandhar Heights-II" in a total plot area as 41703 m^2 (10.31 acres) and having total built up area as 145366 sqm in the revenue estate of Village Pholriwal, Tehsil & District Jalandhar by SEIAA, Punjab vide letter No. No. 914 dated 05.05.2017.

The promoter company has applied for ToRs for carrying out EIA study for obtaining environmental clearance under EIA notification dated 14.09.2006 for expansion of a Residential Apartment Complex namely "Jalandhar Heights-II" in the revenue estate of Village Pholriwal, Tehsil & District Jalandhar, Punjab. The project is covered under category 8 (b) of the Schedule appended to the said notification. The details of the project as given in Form 1, Form 1A and other documents are as under:-

Description	Existing	Proposed	Total
Total land area	~41703 m^2 (~10.31 acres)	~46760 m^2 (~11.57 acres)	88463 m^2 (21.88 acres)
Total built-up area, m^2	~145366	~184601 m^2	~329967 m^2
No. of apartments	689	701	1390
Area under parks/green area, m^2	~10693 (~25.6%)	~9504	20445 (23.1%)
Parking required, ECS	~1313	~1433	~2746
Parking to be provided, ECS	~1351	~1431	~2782
Resident population	~3450	~3500	~6950
Gross water demand	520m^3/day	880m^3/day	1400m^3/day
Fresh water demand	~400 m^3/day	~700 m^3/day	~1100 m^3/day
Waste Water Generation	~420 m^3/day	~700 m^3/day	~1120 m^3/day

MSW generation	~1600 kg/day	~2400 kg/day	~3000 kg/day

- The project proponent has submitted that the intended land use conforms to the Master Plan of Jalandhar.Land falls within LPA of Jalandhar and meant to be developed as residential area as per the master plan.
- The company has acquired an additional land measuring 11.894 acres adjoining the Jalandhar Heights -2. The total land area comes to 21.879 Acres after area left for road widening.
- After expansion, there will be 172 flats of 2 BHK, 558 Flats of 3 BHK, 533 flats of 4 BHK, 127 flats of 1 BHK under EWS.
- 1100 KLD will be net fresh water requirement and requirement will be met through ground water for which permission from DAC/ CGWA will be obtained.
- The company will install a treatment plant of required capacity to treat the sewage water and reuse it for dual plumbing, greenery and other uses. Surplus water will be disposed in the sewer maintained by the Corporation by laying a sewerage line upto the MC sewerage. However, a portion of the water will be treated in house in order to reuse it for greenery, dual plumbing, car washing etc.
- 1120 KLD domestic wastewater to be treated and partially reused for sanitation (flushing) and partially for green area. Remaining treated wastewater to be disposed into public sewer. Treated wastewater reuse potential for sanitation use (in toilet flushing) is more than 320 m3/day. In the conceptual layout plan, 22.87% area will be kept as green area.
- 3000 kg /day MSW will be segregated, collection and disposed through MC, Jalandhar for which NOC has been obtained.
- Approval is required under Forest (Conservation) Act, 1980, for about 0.009686 Ha of forest land for approach road, which is under perusal.
- During construction phase, Construction water requirement to be met through treated wastewater from the STPs in vicinity. Domestic water requirement (for labours /workers) to be met through ground water. During operation phase, Water requirement to be met through ground water

- Electrical energy requirement of the project will be 7500 kW , which will be met through state electricity supply.
- Isolation or noise treatment (e.g., acoustic chamber for DG sets) will be provided for machinery/equipment causing noise.
- Solar panels will be installed to generate power to cater to the common area requirements of the society
- The project proponent has submitted the proposed Terms of Reference (TORs).

The details of the documents submitted with the application are as under:

1.	Properly filled Form 1 & pre-feasibility report	Yes
2.	Proof of ownership of land	submitted
3.	CLU status and approved drawing	submitted
4.	Memorandum of Articles & Association and Names of person responsible for day to day affairs of the project.	Submitted
5.	List of accredited EIA consultant organization with accredited sector of NABET	submitted

As per requirement of OM dated 07.09.2017 issued by MoEF&CC, New Delhi, the Northern Regional office, Chandigarh of the Ministry has been has been requested vide letter no. 320 dated 09.03.2018 to send the certified compliance report the previously granted Environmental Clearance to the project.

The case was considered by SEAC in its 163rd meeting held on 13.03.2018, but no one has attended the meeting. However, the SEAC was apprised that the project proponent has submitted online request on 12.03.2017 to allow him to withdraw the present application due to the planning of the project has been revised.

After deliberation, the SEAC decided to recommend to SEIAA to accede the request made by the project proponent for withdrawal of his application and allow him to file fresh TORs application.

The case is placed before the SEIAA for consideration.

Any other item with the approval of the Chair.

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