

Proceeding of 197th meeting of State Expert Appraisal Committee (SEAC) to be held on 15.03.2021 in the Conference Hall no. 2 at 11:00 AM, MGSIPA Complex, Sector-26, Chandigarh.

The following were present:

Sr. No.	Name of SEAC Member	Designation in SEAC
1.	Er. Yogesh Gupta	Chairman
2.	Sh. Pardeep Garg	Member Secretary
3.	K.L. Malhotra	Member
4.	Sh. Anil Kumar Gupta	Member
5.	Parminder Singh Bhogal	Member
6.	Dr. Preet Mohinder Singh Bedi	Member
7.	Satish Kumar Gupta	Member
8.	Dr. Sunil Mittal	Member

Item No. 01: Confirmation of the proceedings of 196th meeting of State Level Expert Appraisal Committee held on 01.03.2021.

SEAC was apprised that the proceedings of 196th meeting of State Level Expert Appraisal Committee held on 01.03.2021, respectively have been prepared and were circulated through email on 09.03.2021. As such, SEAC confirmed the same.

Item No. 02: Action taken on the proceedings of the 196th meeting of State Level Expert Appraisal Committee held on 01.03.2021.

SEAC was apprised that action taken on the proceedings of the 196th meeting of State Level Expert Appraisal Committee held on 01.03.2021, has been completed. SEAC noted the same.

Item No 197.01: Request regarding exemption of STP from EC granted to our Super Mega Project Sec 66A, 82 and 83 SAS Nagar submitted by JLPL.

SEAC observed as under: -

JLPL vide memo no 5624 -25 dated 15.09.2020 informed as under: -

- 1) They have been granted EC vide letter no SEIAA/2015/8257 dt. 16.12.2015 for subject cited project with the provision of providing independent STP for the project. However, during the course of proceedings, they have been allowed connection to GMADA STP of 45 MLD capacity at Sector 83 SAS Nagar vide GMADA letter no. 1110 dated 21.03.2014
- 2) Accordingly, Super Mega Project sewerage connection has been connected to GMADA STP and the system is operational for last many years. It is further intimated that EDC for the project amounting to Rs 53.06 Crores has been paid to GMADA in lieu of which Authority has to provide external infrastructure services connectivity to the project. Therefore, after granting the exemption, the requisite concurrence may please be allowed, so that same can be tendered to the PPCB as desired.
- 3) Additionally, GMADA vide letter no GMADA/DE(PH-1)/12/1685 dated 16.04.2012 had affirmed that it will account for the sewage load as per the norms fixed by the Govt of India in the manual on Sewerage (published by CPHEEO) for their project in Sector 66 A, 82 & 83 while designing trunk services, to be laid by GMADA on the peripheral grid roads of Mohali Master plan including Sectoral road and public health services which are mandatory as per the provisions of the Master Plan Mohali duly approved under the Punjab Regional and Town Planning and Development Act, 1995.
- 4) Accordingly, it is requested that since Sewerage load has been accounted for as per norms fixed by the Govt of India and main sewerage line stands connected to STP of GMADA, as per statutory requirements of duly approved Master Plan of SAS Nagar (Mohali) under the provisions of the Punjab Regional and Town Planning and Development Act,1995. Therefore, it is, again humbly submitted that after granting requisite exemption from setting up of STP and connection of sewerage earlier permitted by GMADA may be allowed to be regularized and concurrence to this effect may kindly be given to their company, so that the same can be presented to PPCB at the earliest as desired.

1.0 Deliberations during 171st meeting of SEIAA held on 21.09.2021

The case was placed before SEIAA in its 171st meeting held on 21.09.2020 and the same was attended by the following through video conference: -

- i) Sh. Hardeep Singh, Chief Engineer, on behalf of the project proponent.
- ii) Sh. Sandeep Garg, EIA Coordinator, M/s Eco Laboratories and Consultants Pvt Ltd., Noida.

SEIAA observed that the project proponent has not installed its own STP as per the condition of the Environmental Clearance granted to the project proponent vide letter no. SEIAA/2015/8257 dated 16.12.2015 and on the contrary, as per the representation, the project proponent has connected the sewer with the STP of GMADA without getting an amendment in the Environmental Clearance. As such, the project proponent is not adopting the water balance as given at the time of obtaining Environmental Clearance. Thus, the project proponent is operating the project in violation of the conditions of the Environmental Clearance granted to it.

SEIAA further observed that permission given by the GMADA vide letter no GMADA/DE(PH-1)/12/1685 dated 16.04.2012 based on which the project proponent wanted to get the benefits is very old and before the grant of Environmental Clearance, which cannot be considered at this stage.

SEIAA felt that it is also important at this stage to get the latest status from GMADA regarding the laying of sewerage system and treated wastewater lines in the area and the construction of STP (with capacity) for treatment of the domestic effluent.

After detailed deliberations, SEIAA decided as under:

- (i) Show Cause notice be issued to the project proponent under the provision of the Environment (Protection) Act, 1986 for violation of the conditions of the Environmental Clearance granted to it.
- (ii) GMADA be asked to provide the latest status regarding the laying of the sewerage system and treated wastewater lines in the area and the construction of STP (with capacity) for treatment of the domestic effluent.
- (iii) Case will be placed in the next meeting after acting at point no. i) and ii) for examining the same in light of the NGT order dated 25.04.2017.

In compliance with the aforesaid decision, the following action have been taken: -

- i) Show Cause notice has been issued vide letter no. 3193 dated 21.10.2020 to the project proponent under the provision of the Environment (Protection) Act, 1986 for violation of the conditions of the Environmental Clearance granted to it

- ii) GMADA has been asked vide letter no. 3194 dated 21.10.2020 to provide the latest status regarding the laying of the sewerage system and treated wastewater lines in the area and the construction of STP (with capacity) for treatment of the domestic effluent.

JLPL vide memo no 6697 dated 02.11.2020 submitted the reply to the show cause notice.

SEIAA perused the reply submitted by JLPL in reference to show cause notice issued vide letter no 3193 dated 21.10.2020 and observed that JLPL has violated the condition of the Environmental Clearance granted to it vide letter no. SEIAA/2015/8257 dated 16.12.2015 as the project proponent has not installed its own STP. This fact has also been admitted by the JLPL in his reply.

To a query of SEIAA regarding the latest status of laying of the sewerage system and treated wastewater lines in the area and the construction of STP (with capacity) for treatment of the domestic effluent from GMADA, it was informed that reply from the GMADA in reference to SEIAA letter no. 3194 dated 21.10.2020, has not yet received.

After detailed deliberations, SEIAA decided to defer the case and matter be placed in the next meeting of SEIAA after getting the reply from GMADA to take further necessary action in the matter.

Chief Engineer GMADA was requested vide email dated 28.12.2020 to provide the latest status regarding the laying of sewerage for untreated & treated wastewater and the construction of STP (with capacity) for treatment of domestic effluent for Sector 66-A, 82 and 83, SAS Nagar. However, no reply has been received so far.

2.0 Deliberations during 176th meeting of SEIAA held on 19.02.2021

The case was placed before SEIAA in its 176th meeting held on 19.02.2021 wherein it was observed that a reply has still not been received from the GMADA. SEIAA further observed that the EC was granted in 2015 on the condition that the Project Proponent would set up an independent STP. The present contention of the Project Proponent which primarily relies on an earlier communication of GMADA allowing them connection to the GMADA STP appears to be untenable.

After detailed deliberations, SEIAA decided as under:

- (i) To issue a reminder to GMADA to provide the latest status as desired.
- (ii) The reply to the show cause notice under section 5 of the EPA submitted by the Project Proponent along with other relevant details be remanded to SEAC for their detailed comments and recommendations as under:
 - (a) Examining whether the contention of the project proponent that the entire

sewerage of their Super Mega Project has been connected with the GMADA STP is factually correct.

- (b) Whether the other stipulated conditions of the EC regarding the total water requirement and total waste water generation, treatment and its disposal, are being complied with or not for the operation phase and the entire life of the EC.
- (c) If necessary, SEAC may designate a member to conduct a site visit in this regard.

The GMADA was issued reminder vide letter no. 3608 dated 09.03.2021.

3.0 Deliberations during 197th meeting of SEAC held on 15.03.2021

The SEAC observed that SEIAA has sent the case to SEAC to examine the request of the project proponent to exempt it from setting up of the STP and the regularization of the sewerage connection with GMADA. SEAC was apprised that no reply had been received from the GMADA even after issuing reminder to the Chief Engineer GMADA vide letter no. 3608 dated 09.03.2021 for providing the latest status w.r.t. laying of sewerage for untreated & treated wastewater and the construction of STP (with capacity) for treatment of domestic effluent for Sector 66-A, 82 and 83, SAS Nagar. Further, the SEAC was apprised that the Chief Engineer GMADA was also requested vide E-mail dated 12.03.2021 to attend the meeting along with relevant record for providing the details with regards to adequacy of the existing STP and laying of sewerage network for using the treated wastewater of STP for flushing purposes in the JLPL project, but nobody from GMADA has attended the meeting.

SEAC further observed that it is important to study the factual position on ground by visiting the site. After detailed deliberations, the SEAC decided that Sh. Parminder Singh Bhogal, Member SEAC will visit the site for examining the points raised by SEIAA in its meeting held on 19.02.2021. Sh. Nikhil Gupta, AEE shall assist Sh. Bhogal during the site visit. Further, Punjab Pollution Control Board be also requested to depute their officer along with relevant record during the site visit of Sh. Bhogal.

The request of the project proponent will be considered only after the site visit.

Item No. 197.02: Application for exemption of Environmental Clearance for M/s. Innovative Housing & Infrastructure Pvt. Ltd. (Mega Integrated Residential Township) at Vill. Togan and Teera, New Chandigarh, Kharar, Distt. SAS Nagar.

SEAC observed as under: -

M/s Innovative Housing & Infrastructure(P) Ltd. vide reference no PCL/2020/2049 dated 13.10.2020 submitted as under: -

The project layout plan (Drawing No. PCL/ RD/ 16 dated 19/09/2017) has been approved vide CTP Letter No. 4439 CTP (Pb. IMPM-161 dated 11-72018 and the same has also notified by the Govt. of Punjab vide letter No. 18/26/18-5hg2/1968 dated. 29/11/2018 This shows that CLU area is 155.9 acres but the net planning/Licensed area of the project is 95.0250 acres, which is about 42.42 hectares, which is less than 50 hectares and being an area development project, they cannot calculate total built-up area at this stage. The project proponent has contended that, as per EIA Notification, 2006, it is not covered under any project/activity.

M/s. Innovative Housing & Infrastructure Pvt. Ltd., requested to exempt their case (Mega Integrated Residential Township) from prior Environmental Clearance as per EIA notification, 2006.

1.0 Deliberations during 176th meeting of SEIAA held on 19.02.2021.

The case was considered by SEIAA in its 176th meeting held on 19.02.2021. SEIAA observed that such type of queries may come up again time to time after the Ministry clarified vide its letter dated that as on date projects with land area less than 50 ha. but built-up area more than 20,000 sq.mts may be appraised as per the provisions of schedule 8(a) of the EIA Notification 2006 as amended from time to time.

SEIAA felt that to clarify the issue, a detailed guideline for the activity: Building/Construction projects/Area Development Project and Townships (8a & 8b) of schedule appended to the EIA Notification are required to be made.

After detailed deliberations, SEIAA decided to remand the case to SEAC for sending the recommendations in the matter and detailed guidelines to be followed up for the activity by the EIA consultants in the State of Punjab.

2.0 Deliberations during 197th meeting of SEAC held on 15.03.2021.

SEAC observed that the matter has been referred by SEIAA to send recommendations in the matter and frame detailed guidelines in the matter to deal with such cases in future.

SEAC observed that the project proponent in this case has mentioned that the total land area of the project for which CLU had been obtained was 155.9 Acres but the net planned area of the project was 95.025 Acres which is about 42.42 Ha and less than 50 Ha and on the basis of the same, the project proponent had sought exemption from obtaining Environment Clearance under the EIA notification 14.09.2006, as the projects having total land area greater than or equal to 50 Ha are required to obtain Environment Clearance under category 8 (b).

SEAC observed that the term Net Planned Area has not been mentioned in the EIA notification dated 14.09.2006 and could not be considered to appraise the projects. Therefore, the land area for which CLU has been obtained by the project proponent would be considered for ascertaining the applicability of the said Notification.

SEAC further observed that the project proponent had submitted that being an area development project, it was not in a position to calculate the total built up area. In this regard, SEAC observed that the built-up area, in the cases where total land area is less than 50 Ha, shall be calculated on the basis of the permissible FAR, as prescribed by the concerned authority.

SEAC was appraised that Regional office, MoEF&CC vide letter no. 1-5/ 2018/ Miscellaneous/ Env.205 dated 15.04.2019 has clarified that *the projects with land area less than 50 Ha. but built up area more than 20,000 Sqms may be appraised as per the provisions of Schedule 8 (a) of the EIA notification 2006 as amended from time to time.*

After detailed deliberations, SEAC decided as under:

1. The project namely M/s. Innovative Housing & Infrastructure Pvt. Ltd. (Mega Integrated Residential Township) at Vill. Togan and Teera, New Chandigarh, Kharar, Distt. SAS Nagar, cannot be given exemption from obtaining Environment Clearance under the provisions of EIA notification dated 14.09.2006 as the total land area for which CLU was obtained was 155.9 Acres (63.09 ha) which is more than 50 Ha. and thus, the project is covered under category 8 (b) of the schedule attached to the said notification.
2. In view of EIA Notification dated 14.09.2006 for Building / Construction Projects/ Area Development Projects and Townships and clarification given by Regional Office, Ministry of Environment, Forest & Climate Change, Chandigarh vide letter no. 1-5/ 2018/ Miscellaneous/ Env.205 dated 15.04.2019, the following guidelines be adopted in future:
 - a) The land area for which CLU has been obtained shall be considered for ascertaining the applicability of the EIA notification dated 14.09.2006 and not the Net Planned Area.

- b) In all the cases in which the total land area is less than 50 Ha, the total built up area shall be calculated on the basis of the permissible FAR, as prescribed by the concerned authority.
- c) The projects with land area less than 50 Ha but built up area more than 20,000 Sqms will be appraised as per the provisions of Schedule 8 (a) of the EIA notification 2006 as amended from time to time, as clarified by Regional office, MoEF&CC, Chandigarh vide letter no. 1-5/ 2018/ Miscellaneous/Env.205 dated 15.04.2019.

Item No. 197.03: Request regarding release of Bank Guarantee (BG) of Rs. 22.05 Lacs submitted by Indian Railway Welfare Org (IRWO) for Remediation Plan and Natural & Community Resource Augmentation Plan regarding 'RAIL VIHAR' Group Housing Project at VIP Road, Zirakpur

1.0 Background:

Earlier, the case was considered by the SEIAA in its 145th meeting held on 15.03.2019 and during the meeting, the project proponent submitted a copy of the receipt of bank guarantee of amount Rs 22.05 lacs submitted in the Regional Office of Punjab Pollution Control Board at Mohali as an assurance to comply with remediation plan and Natural and Community Resource Augmentation Plan. SEIAA took the copy of receipt of Bank Guarantee on record and allowed the project proponent to present the salient features of the Project.

Environmental Consultant of the promoter company presented the salient features of the project. The SEIAA observed that the case stands recommended by SEAC and the Committee has awarded 'Silver Grading' to the project proposal. The SEIAA looked into the details of the case and was satisfied with the same. Therefore, the Authority decided to accept the recommendations of SEAC and grant environmental clearance to the project for establishment of group housing project namely "Rail Vihar" at VIP Road, Zirakpur, Punjab, subject to the conditions as proposed by the SEAC in addition to the proposed measures.

In compliance to the above said decision, Environmental Clearance was granted to the project vide letter No. 311 dated 02.04.2019.

2.0 Present Case:

Indian Railway Welfare Organization (IRWO) vide letter dated 07.01.2021 requested to release the Bank Guarantee of Rs. 22.05 lacs submitted in the Regional Office of Punjab Pollution Control Board at Mohali as an assurance to comply with remediation plan and Natural and Community Resource Augmentation Plan. Further, IRWO submitted a fresh Bank Guarantee No. 084071120000011 dated 13.10.2020 valid up to 12.04.2021 with the Regional Office of PPCB, Mohali as the validity of the old Bank Guarantee was expired.

It was informed that as they had completed all the works/ activities considered under Remediation Plan and Natural & Community Resource Augmentation Plan as mentioned in the Environment Clearance condition No. 12 (4) on or before 12-03-2020, Regional

Office, Mohali of the PPCB was requested by IRW with a copy to the Chairman SEIAA vide letter dated 19.03.2020 and again on 22.10.2020 to release the said Bank Guarantee.

PPCB was again requested vide letter dated 18.12.2020 to release the Bank Guarantee. However, PPCB Officials informed that as the Bank Guarantee was submitted by IRWO on the directions of SEIAA, Punjab, as such, IRWO have to approach with SEIAA to release the said Bank Guarantee.

Subsequently, IRWO requested SEIAA, Punjab to direct PPCB Mohali office to release their Bank Guarantee No. 084071120000011, dated 13-10-2020 of amount Rs. 22.05 lacs as the liability has already been fulfilled by them. Copies of completion certificates for each work/activity against which Bank Guarantee submitted, were also attached with the request letter.

3.0 Deliberations during 176th meeting of SEIAA held on 19.02.2021.

The case was considered by SEIAA in its 176th meeting held on 19.02.2021. SEIAA perused the MoEF&CC Notification dated 14.03.2017 as amended vide notification dated 08.03.2018 and observed that bank guarantee is required to be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation plan, and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.

After detailed deliberations, SEIAA decided to remand the case to SEAC for sending their recommendation regarding release of the Bank Guarantee after getting the physical verification of the compliances made by the project proponent through a field visit by a member of the SEAC.

4.0 Deliberations during 197th meeting of SEAC held on 15.03.2021.

SEAC observed that the MoEF&CC vide OM dated 14.03.2017 has laid down the following procedure for release of Bank Guarantee:

"The project proponent will be required to submit a bank guarantee equivalent to the amount of remediation plan and Natural and Community Resource Augmentation Plan with the State Pollution Control Board and the quantification will be recommended by Expert Appraisal Committee and finalized by regulatory authority and the bank guarantee shall be deposited prior to the grant of Environment Clearance and will be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by Regional office of the Ministry, Expert Appraisal Committee and approval of the regulatory authority."

After detailed deliberations, SEAC decided that as per the provisions of O.M dated 14.03.2017, the request of the project proponent shall be forwarded to the Regional Office of MoEF&CC, Chandigarh for making recommendations regarding release of bank guarantee amounting to Rs 22.05 lacs submitted by the Project Proponent in the Regional Office of Punjab Pollution Control Board, Mohali, SAS Nagar.

Item No. 197.04: Regarding review of conditions imposed in the Environmental Clearance being granted to the induction furnace industrial units under the provisions of EIA notification dated 14.09.2006.

Member Secretary, Punjab Pollution Control Board vide letter no. 4144 dated 23.12.2020, inform that earlier SEIAA was requested vide letter no. 1892 dated 02.07.2020 to review some of the conditions being imposed in the Environmental Clearances being granted by the SEIAA and issue the necessary modification letter in the form of Corrigendum, so that the Punjab Pollution Control Board may grant consent to operate under the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981 to the industrial units. However, necessary action/response from SEIAA, Punjab is still awaited.

The comments of Punjab Pollution Control Board on their relevancy/ applicability of conditions of Environmental Clearances are as under:

Sr. No.	Condition of EC	Comments of PPCB
1.	The project proponent shall install system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM ₁₀ and PM _{2.5} in reference to PM emission, and SO ₂ and NO _x emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each) covering upwind and downwind directions. (case to case basis small plants: Manual; Large plants: Continuous)-	It is intimated that a common CAQMS has been installed in the Mandi Gobindgarh area as per the guidelines of CPCB and no separate CAQMS may be insisted upon to be installed by each Separate unit.
2.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012	Continuous effluent monitoring system is not required as there is no discharge of waste water from the process of induction furnace units.

	(applicable to IF/EAF) as amended from time to time; S.O. 3305 (E) dated 7 th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. (case to case basis small plants: Manual; Large plants: Continuous) Adhere to 'Zero Liquid Discharge'.	
3.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	There is no colony/labour quarter in most of the industrial premises. There is generation of about less than 10 KLD of domestic effluent for which the industry installs septic tank. The treated domestic effluent is being discharged onto land for plantation/into Public sewer depending upon location of unit. As such, STP conditions may not be imposed in such units.
4.	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species (having Wide canopy type structure and especially trees not grass) in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant as assured during the presentation. The industry shall ensure that most of the periphery shall be provided with green belt by removing the unwanted/non-productive	In most of the induction furnace units, no space is available for plantation to comply with the conditions imposed in the Environmental Clearance. This office is of the opinion that at the time of submission of documents for obtaining Environmental Clearance, the industry may be asked to submit the layout plan showing the plantation to be carried out and the same should be shared with Punjab

	structures already provided in the existing project near the boundary wall. Wide canopy trees shall also be planted around the parking area to provide shade to the parked vehicles.	Pollution Control Board, to ensure compliance.
5.	The project proponent shall provide STP for treatment of waste water & reutilization of the treated water for core/non-core activities so as to achieve the Zero Liquid Discharge Condition as per the III (iv) of OM dated 09.08.2018 issued by the MoEF&CC for such units.	Mostly, there is no colony/labour quarter in the industrial premises. There is generation of about less than 10 KLD of domestic effluent for which the industry installs septic tank. The treated domestic effluent is discharged onto land for plantation. As such, STP condition may not be imposed on such units.

Further, it was informed that the Punjab Pollution Control Board will continue to grant consent to operate under the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981 to the industrial units with compliance as above for the said conditions of Environmental Clearance granted in the past so that industrial growth in the State is not hampered in view of industry being already under economic stress due to COVID-19.

1.0 Deliberations during 176th meeting of SEIAA held on 19.02.2021.

The matter was considered by SEIAA in its 176th meeting held on 19.02.2021. After deliberation SEIAA decided to remand the matter to SEAC for examination of the condition of Environmental Clearance viz-a-viz comments of the PPCB and sending recommendations in the matter.

2.0 Deliberations during 197th meeting of SEAC held on 15.03.2021.

SEAC observed that Punjab Pollution Control Board has commented on some of the conditions being imposed while granting Environmental Clearance to induction furnaces industrial units under the provisions of EIA notification 14.09.2006.

After detailed deliberations, SEAC decided as under:

1. The condition for installing separate Continuous Ambient Air Quality Monitoring System (CAAQMS) by the project proponent shall not be imposed in cases where adequate no. of CAAQMS has already been installed by PPCB.
2. The condition for installing Continuous Effluent Monitoring System by the project proponent shall not be imposed in induction furnace cases, as there is no discharge of wastewater from the process of induction furnace units as pointed out by PPCB.
3. The project proponent shall provide septic tank where the discharge of domestic wastewater is less than 10 kld and STP for the discharge more than 10 kld.
4. A copy of the layout plan, as submitted by the Project Proponent, showing the plantation be shared with Punjab Pollution Control Board, along with copy of Environment Clearance, to ensure compliance.

Item No. 197.05: Application for issuance of TORs for carrying out EIA study for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for expansion of a Group Housing Project namely "Mona Green" located at VIP Road, Village Bishanpura, Near Zirakpur, Distt. S.A.S. Nagar by M/s Mona Township Pvt. Ltd. (Proposal no. SIA/PB/NCP/22972/2018)

1.0 Background

Earlier, M/s Mona Township Pvt. Ltd. was granted Environmental Clearance vide letter number SEIAA/2014/5946 dated 24.01.2014 for construction of a Group Housing Project namely "Mona Greens" having a built-up area of 31,093.13 sqm in the total plot area of 3.92 acres located at VIP Road, Village Bishanpura, Near Zirakpur, Distt., S.A.S. Nagar, subject to the certain conditions by SEIAA, Punjab.

The project proponent submitted that the built-up area mentioned in the Environmental clearance is 31093.13 Sqm and whereas the consultant has not taken the basement area in the application submitted earlier for obtaining environmental clearance. Thus, there are some changes in the built-up area i.e. 31537 Sqm plus basement area 9998 Sqm (Total Built-up area 41516 Sqm). The project has already completed and when they applied for the completion, it has been suggested that environmental clearance should be got revised.

As per the amended notification vide No S.O. 804 (E) dated 14-03-2017, violation cases even of category "B" projects which are granted Environmental Clearance by SEIAA appraised for the grant' of Environmental Clearance only by the EAC and granted at the central level.

Accordingly, they had applied online application for issuance of Terms of Reference for obtaining Environmental Clearance to MOEF&CC vide proposal no IA/PB/NCP/69187/2017 on 13/09/2017.

MoEF&CC issued amended notification dated 08.03.2018 and the gist of relevant paras (2), (4) and (5) of the notification, is reproduced as under: -

Para (2) For category B projects, the appraisal, and approval thereof shall vest with the State or Union territory level Expert Appraisal Committees and State or Union territory Environment Impact Assessment Authorities in different States

and Union territories, constituted under sub-section (3) of section 3 of the Environment (Protection) Act, 1986.

Para (4) The cases of violations will be appraised with a view to assess that the project has been constructed at a site which under prevailing laws is permissible and expansion has been done which can run sustainably under compliance of environmental norms with adequate environmental safeguards, and in case, where the findings of Expert Appraisal Committee for projects under category A or State or Union territory level Expert Appraisal Committee for projects under category B is negative, closure of the project will be recommended along with other actions under the law.

Para (5) In case, where the findings of the Expert Appraisal Committee or State or Union territory level Expert Appraisal Committee on point at sub-paragraph (4) above are affirmative, the projects will be granted the appropriate Terms of Reference for undertaking Environment Impact Assessment and preparation of Environment Management Plan and the Expert Appraisal Committee or State or Union territory level Expert Appraisal Committee, will prescribe specific Terms of Reference for the project on assessment of ecological damage, remediation plan and natural and community resource augmentation plan.

In view of the above, MoEF&CC has transferred the project to SEIAA vide proposal no. SIA/PB/NCP/22972/2018 on 28.03.2018.

Deliberation during 167th meeting of SEAC held on 26.05.2018

The matter was considered by SEAC in its 167th meeting held on 26.05.2018 wherein the SEAC was apprised that project proponent has not yet submitted a hard copy of the application after acceptance of its online application as stipulated vide MoEF OM No. J-11013/49/2014-IA.I dated 06/06/2014.

After detailed deliberations, SEAC decided to defer the case and ask the project proponent to submit a hard copy of the application. Till such time his case will not be taken up for consideration. Accordingly, ADS was raised online on 14.06.2018.

Thereafter, notice was issued to the project for delisting the case vide no. 918 dated 29/10/2019

Deliberation during 185th meeting of SEAC held on 29.11.2019

The case was considered by SEAC in its 185th meeting held on 29.11.2019, which was attended by the authorized representative on behalf of the project proponent. SEAC was

apprised that the project is a violation case and was applied in the window given by MoEF vide notification dated 14.03.2017. SEAC was further apprised that as per the clause 3 of the said notification in cases of violation, action will be taken against the project proponent by the respective State Pollution Control Board under the provisions of section 15 & 16 read with section 19 of the Environment (Protection) Act, 1986 and further, no consent to operate or occupancy certificate will be issued till the project is granted the Environmental Clearance.

The representative of the project proponent informed SEAC that due to some pressing circumstances the project proponent was not in a position to present the case in the meeting and requested to consider the case in the next meeting.

SEAC raised the following observations to the project proponent:

1. As to whether a hard copy of the application/Complete Proposal along with a list of persons responsible for the violation has been submitted.
2. As to whether the project has been constructed at a site which under prevailing law is permissible. if yes, has the project proponent submitted any documentary proof in this regard.
3. Whether permission has been obtained for the abstraction of the groundwater from the CGWA or not?
4. Whether any specific ToRs for the project on assessment of ecological damage, remediation plan and natural and community resources augmentation plan have been submitted?

To the above observations, the project proponent sought time to comply with the said observations.

After detailed deliberations, SEAC decided to accept the request of the project proponent, to defer the case, and the same be placed in the next meeting after getting the reply from the project proponent.

The observations were conveyed to the project proponent vide letter no 1430 dated 03.02.2020. However, no reply has been received from the project proponent, to date.

2.0 Present Case

2.1 Summary of the project

The project proponent submitted the application for TOR along with the summary of the project and EMP and detail of the project is given as under:

S.No.	Item	Details
1.	Name & Location of the project	Expansion of a Group Housing Project namely "Mona Green" located at VIP Road, Village Bishanpura, Near Zirakpur, Distt. S.A.S. Nagar
2.	Project/activity covered under item of scheduled to the EIA Notification,14.09.2006	8(a) 'Building & Construction Project'
3.	Copy of the Master plan duly marked with the project site	Not Submitted. However, exiting project of M/s Mona Township Pvt. Ltd. had already granted Environmental Clearance vide letter number SEIAA/2014/5946 dated 24.01.2014 for construction of a Group Housing Project namely "Mona Greens" having a built-up area of 31,093.13 sqm in the total plot area of 3.92 acres
4	Pre-feasibility report as per Ministry of Environment & Forests, Circular dated 30.12.2010.	Not submitted
5.	Proof of ownership of land	Not Submitted
6.	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.	Not Submitted
7.	Proposed ToRs (based on the standard ToRs)	Submitted

8.	Does it attract the general condition? If yes, please specify	No		
9.	Whether the proposal involves approval/clearance under the Forest (Conservation)Act,1980	No		
10.	Does the project cover under PLPA, 1900	No		
11.	Whether the proposal involves approval/clearance under the Wildlife (Protection)Act, 1972?.	No		
12.	Classification/Land use pattern as per Master Plan	The project site is located at Gazipur, Zirakpur. The land for the proposed project conforms to the land use as per the Master plan		
13.	Cost of the project	59 Crores.		
14.	TORs Fee details	NA as the application submitted on 13.09.2017 i.e. before the date of Notification 27.06.2019		
15.	Total Plot Area, Built-up Area and Green area			
	Description	Existing	Additional *	Total
	Total Area	15863 sqm	-	15863 sqm
	Built-up Area	31093 sqm	264+ 9998	41516 sqm
	Flats	283	21	304
	* Note: Some changes of 264 sqm i.e. (31357-31093) and basement of 9998 sqm, which was not considered at the time of Environmental Clearance.			
16.	Source of water supply	Ground Water (Tubewell)		
17.	Total water demand	207 KLD		
18.	Waste Water generation	165 KLD Treatment: -STP of 175 KLD Capacity		
19.	Effluent utilization	Recycled Water-82 KLD, i) Uses- Flushing-68 KLD, ii) Plantation & Irrigation-14KLD		
20.	Rainwater harvesting	Rooftop rainwater of buildings will be collected in 4 RWH tanks of total 100		

		KLD capacity for harvesting after filtration
21	Air pollution control	Chimney on DG sets
22	Solid waste	About 0.611 TPD solid waste will be generated in the project. The biodegradable waste will be sent to the approved site and the non-biodegradable waste generated will be handed over to the authorized local vendor
23	Hazardous waste	Used oil will be stored in HDPE drums and kept in covered rooms under lock and key and will be sold as per EPA Rules to approved recyclers only
22.	Energy Requirements & Saving	<ul style="list-style-type: none"> i) The total power requirement during operation phase is 2800 KW and will be met from PSPCL, Punjab ii) Proposed energy-saving measures would save about 18 % of power

2.1 Complete details of the case are summarised as under:

1	Proposal No	SIA/PB/NCP/22972/2018
2	Date of submission of application	13.09.2017
3	Date of acceptance of application	22.05.2018
4	Last meeting of SEAC in which case was considered	167 th meeting held on 26.05.2018
5	Observations	As mentioned above
6	Date of ADS	14.06.2018
7	Details of notice issued, if any	Issued vide no. 918 dated 29/10/2019
8	Reply to the notice received or not	Project proponent attended the 185 th meeting of SEAC.
9	Lastly, the case was considered by SEAC	185 th meeting held on 29.11.2019

10	Observations	As mentioned above
11	Observation conveyed to the Project Proponent	Vide no 1430 dated 03.02.2020.
12	Reply in reference to letter no 1430 dated 03.02.2020	The project proponent has not submitted a reply online to the ADS.
13	Reminder	A reminder was issued through email 06.05.2020 wherein it was requested to submit the reply online to the observations immediately, otherwise, it will be presumed that the project proponent has nothing to say and the project will be delisted in light of the OM dated 30.10.2012. However, no reply has been received so far.

3.0 Deliberation during 189th meeting of SEAC held on 28.05.2020

The meeting was attended by the following through video conference:

1. Sh.Vikram Kumar, Project Head, and Sh. Deepak Gupta, Environmental Advisor, representing the Project Proponent.
2. Sh. Sital Singh, EIA coordinator, M/s Chandigarh Pollution Testing Laboratory, E-126, Phase-VII, Industrial Area, Mohali, Punjab, Environmental consultant of the Project Proponent.

The project proponent informed the SEAC that the said project had been granted Environmental Clearance vide letter number SEIAA/2014/5946 dated 24.01.2014. However, in the said Environmental Clearance, the basement area could not be taken into account inadvertently. He informed that in the previous application for which Environmental Clearance was granted, the prosecution was already filed against the project proponent as the earlier application was also a violation case. He further informed that this case was inadvertently applied in violation window whereas the project was required to be applied only for amendment of Environmental Clearance. Apart from the basement area, there is no other change in the application. He requested the SEAC to allow him to withdraw the current application and allow him to apply for an amendment in the Environmental Clearance.

After detailed deliberations, SEAC accepted the request of the project proponent and decided to recommend to SEIAA that the project proponent be allowed to withdraw the application submitted in violation window and apply fresh for obtaining amendment in Environmental Clearance already granted to it.

4.0 Deliberation during 166th meeting of SEAC held on 26.06.2020

The case was considered by SEIAA in its 166th meeting of SEIAA held on 26.06.2020. SEIAA observed that the project proponent has not submitted any documentary evidence to prove his contention that the basement area was provided/included in other valid and reliable documents but was inadvertently left out in the earlier application for Environment Clearance.

After detailed deliberations, SEIAA decided to remand the case to SEAC for re-examination in the light of the above observation and sending the detailed report in the matter.

5.0 Deliberations during 193rd meeting of SEAC held on 26.09.2020

The case was placed in the 193rd meeting of SEAC held on 26.09.2020 which was attended by Sh. Deepak Gupta, Environmental Advisor, representing the Project Proponent and Sh. Sital Singh, EIA coordinator, M/s Chandigarh Pollution Testing Laboratory, E-126, Phase-VII, Industrial Area, Mohali, Punjab, Environmental consultant of the Project Proponent.

To a query of SEAC regarding the submission of documentary evidence to prove their contention that the basement area was provided/included in other valid and reliable documents but was inadvertently left out in the earlier application for Environment Clearance, the Environmental consultant of the Project Proponent requested to give some time and defer the case for next meeting.

After deliberations, SEAC decided to accept the request of the environmental consultant, and defer the case till documentary evidence is not submitted to prove their aforesaid contention.

6.0 Deliberations during 197th meeting of SEAC held on 15.03.2021

The meeting was attended by following, on behalf of Project Proponent:

1. Mr. Sital Singh, EIA coordinator, M/s CPTL Laboratories, Mohali.

The Environmental Consultant of the Project Proponent informed the Committee that Project Proponent could not attend the meeting due to health reasons and requested to defer the case to the next meeting of SEAC.

After detailed deliberations, SEAC decided to defer the matter to the next meeting of SEAC.

Item No.197.06: Application for obtaining Environmental Clearance to M/s Vincit Lab Pvt. Ltd. for establishment of pharmaceutical unit at village- Banur, District SAS Nagar. (Proposal No. SIA/PB/IND2/173982/2020).

1.0 Background

The project proponent submitted an application for obtaining Environmental Clearance under EIA Notification, 2006 for setting up a new API Bulk Pharmaceutical manufacturing unit.

As per EIA Notification,14.09.2006 the project falls under "A" category but now, MOEF&CC has issued OM vide F.No.22-25/2020-IA.IIIII dated 13.04.2020 which states that "proposal or activities in respect of Active Pharmaceuticals Ingredients (API) received up to 30.09.2020 shall be appraised as "B2" projects to ensure drug availability or production to reduce the impact of Novel Coronavirus. The project proponent applied for obtaining EC on 19.09.2020 and thus the project can be considered in B-2 category.

2.0 Present Case

The project proponent proposes to set up a new API Bulk Drug Pharmaceutical manufacturing unit with a production capacity of 1380 TPM (16560 TPA). Further, the Project proponent has deposited the requisite EC processing fee through NEFT by UTR no. ICICR42020091800862325 dated 18.09.2020.

The project proponent was raised EDS on 22.10.2021 to which PP replied on 20.02.2021. Thereafter, the application for obtaining EC was accepted online on 24.02.2020.

Environmental Engineer, PPCB, RO, SAS Nagar was requested vide email dated 25.02.2020 to send the report on the following points: -

- i) Construction/Installation status of the newly proposed project of the industry
- ii) Status of physical structures within 500 m radius of the site including the status of industries, if any
- iii) Status of Consent to Establish/NOC from PPCB for M/s Surya Pharmaceutical Ltd.
- iv) Whether any direction passed by PPCB to M/s Surya Pharmaceutical Ltd. (Old unit existed at same site earlier) under Water or Air Act due to which the unit was shut down .
- v) Validity details of last CTO issued under Air/Water Act to M/s Surya Pharmaceutical Ltd.

3.0 Deliberations during 197th meeting of SEAC held on 15.03.2021

The meeting was attended by the following:

1. Sh. Rahul Goel, Director.

2. Mr. Sital Singh, EIA coordinator, M/s CPTL Laboratories, Mohali, Environmental Consultant of the Project Proponent.

SEAC was apprised that the Punjab Pollution Control Board, Zonal Office 1, Patiala vide letter no. 1112 dated 01.03.2021 has sent the latest construction status report and the contents of the report are given as under:

<i>Sr.no.</i>	<i>Report of point sought by SEIAA</i>	<i>Remarks</i>
<i>1.</i>	<i>Construction/Installation status of the newly proposed project of the industry</i>	<p><i>1. The proposed site of the project is the unit premises of M/s Surya Pharmaceutical Ltd., which was lying closed since long and the site is in brownfield condition.</i></p> <p><i>2. All the utilities/ manufacturing/ treatment sections are in inoperable condition.</i></p> <p><i>3. The drains already built up within the premises for carrying effluent to the treatment plants were in heavily damaged conditions.</i></p> <p><i>4. The industry has not installed any additional machinery relating to the proposed project and only repair of existing utilities/manufacturing/treatment sections was under progress.</i></p>
<i>2.</i>	<i>Status of physical structures within 500 m radius of the site including the status of industries, if any</i>	<i>The site of the industry is surrounding by agriculture field and them exist one distillery unit namely M/s Chandigarh Distillers & Bottlers Ltd within 500 m radius of the site of the proposed industry.</i>
<i>3.</i>	<i>Status of consent to establish/NOC from PPCB for M/s Surya Pharmaceutical Ltd.</i>	<i>The industry M/s Sam Biotech Ltd. (Predecessor of M/s Surya Pharmaceutical Ltd) was granted 'consent to establish' (NOC) vide no. PTA-609 dated 31.01.2000 for setting up</i>

		<p><i>a industrial unit to manufacture Ampicillin Trihydrate @ 400 Kg/day, Amoxicillin Trihydrate @ 400 Kg/day Cloxacillin Sodium @ 400 Kg/day, Cephalexin Monohydrate @ 600 Kg/day, 6 APA @@ 850 Kg/day, CMI Chloride @340 Kg/day m 7 ADCA @ 340 Kg/day, Trimethoprim @ 1000 Kg/day Sulphamethoxazole @ 4000 Kg/day, subject to certain condition as mentioned therein and was granted site clearance by the MoEF vide no. J-11011/78/99-1A-11 dated 06.06.2000 for the manufacturing of same product.</i></p>
<p>4.</p>	<p><i>Whether any directions passed by PPCB to M/s Surya pharmaceutical Ltd. (Old unit existed at same site earlier) under water or Air Act due to which the unit was shut down.</i></p>	<p><i>Earlier, directions u/s 33-A of the water Act, 1974 were issued to the industry for disconnection of the electrical connection and later on amended direction were issued u/s 33-A of the said Act for restoration of electricity connection temporarily restoration up to 15.08.2012 lastly the Board extended the validity of temporarily restoration of supply up to 30.03.2013 by directing the PSPCL u/s 33-A of the water Act, 1974 vide no. 2356-57 dated 08.04.2013. However, as per the record of the office, the industry was lying closed since June, 2012. Thereafter, the industry was lastly issued directions u/s 5 of the Environment (Protection) Act, 1986 by the CPCB vide no. 8713 dated 03.03.2016, to not to re-start operation of its unit till online effluent monitoring system are installed at effluent outlets (flow meter and camera for unit sending effluent to CETP/ zero liquid discharge</i></p>

		<p><i>units) in notified unit/area and the same are uplinked with CPCB website. Later, the Liquidation process was commenced in case of Surya Pharmaceutical Ltd ("Corporate Debtor") (L24232DL1992PLC227186) (old CIN No. L24232HP1992PLC023861) under the provisions of insolvency and Bankruptcy code, 2016 ("Code") by an order of National Company Law Tribunal ("NCLT"), Special Bench, New Delhi w.e.f. 09.08.2019.</i></p>
5.	<p><i>Validity details of last CTO issued under Air/Water Act to M/s Surya Pharmaceutical Ltd.</i></p>	<p><i>The industry M/s Surya Pharmaceutical Ltd. Was lastly granted 'consent to Operate' under the water Act, 1974 vide no. R12SASCTOW43589 dated 21.08.2012 and under the Air Act, 1981 R12SASCTOA43600 dated 21.08.2012, which had already expired on 30.09.2013, for manufacturing of bulk drug/ APIs Phyto product @50.00 Kg/day, Menthol @ 6666.67 Kg/day, 7 ACCA @ 100.00 Kg/day, 7ANCA @ 80.00 Kg/day, Cefixime @ 333.33 Kg/day Cefuroxime axetil @ 116.67 Kg/day Cefpodoxime Proxetil @ 60.00 Kg/day Cefradien @ 66.67 Kg/day, Cefprozil 66.67 Kg/day, Cefdinir @ 66.67 Kg/day , Cephalixin & Cephalosporin product @ 333.33 Kg/day Cefaclor @ 50.00 Kg/day, Cefadroxil @ 333.33 Kg/day (i.e. different product than mentioned in the present project proposal).</i></p>

The project proponent had applied for obtaining 'consent to establish' (NOC) for establishment of unit under the name & style of M/s Vincit Labs Pvt. Ltd at the site of existing industry earlier operating under the name & style of M/s Surya Pharmaceutical Ltd. at village Banur, Tehsil Mohali, District SAS Nagar, for manufacturing of

Corticosteroids @ 240 MT/year, Oncology @ 120 MT/year, Vitamins @ 120 MT/years Antacids @ 1200 MT/years, Cephalosporins @ 1200 MT/years, Herbals & Phytochemicals @ 240 MT/year, & Ant-Diabetics @ 240 MT/year, Anti-Fungal @ 120 MT years, Anti-Hypertensive @ 120 MT/year, Anti-Virals @ 120 MT/year, Carbapenems @ 120 MT/year, Cardiovascular @ 480 MT/year, Anti-Parkinson @ 120 MT/year, Hormones @ 120 MT/year, Bulk APIs @ 7800 MT/year, Menthol @ Derivatives @ 3600 MT/year, R&D @ 600 MT/Year by using various chemicals as raw material. M/s Vincit Labs Pvt. Ltd. was granted 'consent to establish' (NOC) vide no. CTE/Fresh/SAS/202013884506 dated 12.11.2020 having validity up to 11.11.2021 for the same subject to certain conditions as mentioned therein (copy attached).

SEAC observed that as per the report from Punjab Pollution Control Board no construction work has been started by the Project Proponent till date. SEAC allowed the Project Proponent to present the case and the Environmental Consultant of the Project Proponent presented the case as under:

1.	a) Category b) Activity (As per schedule appended to EIA Notification, 2006 as amended time to time)	(a) B-2 (b) As per S.O. 1223(E) dated: 27.03.2020, "All proposals for projects or activities in respect of Active Pharmaceutical Ingredients (API) received up to the 30 th September,2020, shall be appraised as Category 'B2'
2.	a. Whether the project falls in the critical polluted area notified by MoEF&CC/CPCB. (Yes/No) b. If no and the proposed project site lies in the same or neighbouring district of critically polluted area, then details the distance of project site from the boundary of critically polluted area verified by the regional office of SPCB. (Submitted/Not submitted)	No No
3.	a. Total Project Cost (In Crores) :	59.80Crore

4.	Details of technology proposed for control of emissions & effluents generated from project																						
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6.	<p>a. Type of project land as per master plan (Industrial/Agriculture/ Any other),</p> <p>b. If non industrial land then the details of Land Use Certificate / permissibility Certificate from Competent Authority (DTP/CTP) intimating land use pattern of the project site as per proposals of Master Plan of the area.</p>	<p>This is an existing industrial land. The proponent bought it in liquidation process.</p> <p>CLU has been applied.</p>																					

	(Submitted/Not Submitted)															
7.	a. Whether any litigation pending against the project or any direction/order passed by SPCB/ Court of Law against the project, if so, details there of shall also be included.	No litigation is pending. No, as per undertaking submitted by the project proponent														
8.	Raw material details:	The number of raw materials is very high. It is provided as Annexure-VI in additional documents.														
9.	Manpower requirement (After expansion)	400 (Direct), 200 (Indirect)														
10.	Details of Emissions (After expansion)	During the manufacture various drugs products, traces HCL, SO ₂ gas shall be generated. These gases shall be absorbed in caustic lye solution. The absorber system is designed for absorbing HCL, SO ₂														
11.	Hazardous/Non-Hazardous Waste Generation details & their storage, utilization and its disposal. Copy of Agreement clearly mentioning the Quantity	<table border="1"> <thead> <tr> <th>Cate gory</th> <th>Type</th> <th>Quantity</th> <th>Mode of Disposal</th> </tr> </thead> <tbody> <tr> <td>5.1</td> <td>Used Oil</td> <td>0.30 TPA</td> <td>Sold to Authorized Recycler</td> </tr> <tr> <td>28.1</td> <td>Process Residue</td> <td>3.40 TPA</td> <td>To TSDF site</td> </tr> </tbody> </table>	Cate gory	Type	Quantity	Mode of Disposal	5.1	Used Oil	0.30 TPA	Sold to Authorized Recycler	28.1	Process Residue	3.40 TPA	To TSDF site		
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			Blow-down, Scrubber			
		3	Washing & Scrubber	3.5	LTDS-ETP	
		4	Domestic Uses	23	LTDS-ETP	
		Total		114.5 KLD	93.5KLD Treatable	
14.	Details of the block in which the project site is located as per CGWA guideline (Notified/ Non-Notified area and name of block)	Patiala block Notified				
15.	Breakup of Water Requirements & its source in Operation Phase:	S. No.	Description	Existing water demand (KLD)	Proposed water demand (KLD)	Total water demand (KLD)
		1.	Domestic water demand	6.0	5.0	11.0
		2.	Make up water demand for cooling purpose	15.0	45.0	60.0
		Total		21	50	71
		3.	Green area water demand	45 KLD		
		Sources of water:				
		S.N	Purposes	Source of water		
		1.	Domestic	Ground water		
		2.	Make-up water demand for cooling	Treated water		
		4.	Green area water demand	Treated water		
16.	Water balance chart for Summer, Rainy and Winter seasons	Submitted				
17.	Rain Water utilization proposal during monsoons	Submitted				
18.	Rain Water Harvesting proposal	Village Pond of village Bathlana, Tehsil & District Mohali, SAS Nagar, will be adopted for rainwater recharge.				

	(within/outside premises) alongwith NOC from concerned village sarpanch																																																			
19.	Blockwise details of no. of trees to be planted in proposed greenbelt area(1500 Trees to be planted @ 10000 Sqm area):	More than 5000 trees already present																																																		
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					Phenolic compound ammonical nitrogen & bioassay	
		5	Green area	10	0.5	Saplings transportation, fertilizers horticulturist etc.
		Total cost		325	8	
		Submitted				
21.	Project area involves forest land, (Yes/No),	No				
22.	Traffic Study Details:	Not Applicable				

SEAC raised following observations to the project proponent:

Sr. No.	Observations	Reply
1.	The Project Proponent shall earmark atleast Rs. 600 per plant for plantation.	The project proponent informed that the total no. of trees to be planted are 6332 out of which 5000 trees have already been planted. Thus, for remaining 1332 trees, the cost per plant in the EMP will be considered as Rs. 600.
2.	The project proponent shall submit proper layout plan having proper dimensions of the green area.	Submitted
3.	The Project Proponent shall submit undertaking to the effect that the existing 5000 trees shall be properly maintained.	Submitted
4.	The Project Proponent shall obtain permission from PWRDA for abstraction of ground water.	Agreed by the Project Proponent.
5.	The Project Proponent shall carry out toxicological study after operationalizing the unit	Agreed by the Project Proponent.

Recommendations

After detailed deliberations, SEAC decided to award '**Silver Grading**' to the project proposal under category B2, Activity 5 (f) as per MOEF&CC OM dated 13.04.2020 and to forward the application to SEIAA with the recommendations to grant Environmental Clearance for establishment of pharmaceutical unit at village- Banur, District SAS Nagar by M/s Vincit Lab Pvt. Ltd. as per the details mentioned in the application & subsequent presentation /clarifications made by the project proponent & his consultant and conditions are as under:

I. Statutory compliance

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area)
- iv. The project proponent shall obtain the necessary permission from the Central Ground Water Authority/ competent authority concerned, in case of drawl of ground water and also in case of drawl of surface water required for the project. In case of non- grant of permission by CGWA for ground water abstraction, the industry shall make alternative arrangements by using surface water or treated city sewage effluent after obtaining permission from competent authority.
- v. The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the Punjab State pollution Control Board/ Committee.
- vi. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
- vii. The project proponent shall comply with the siting criteria, standard operating practices, code of practice and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such type of units.
- viii. The project proponent shall comply with the CLU conditions imposed by competent authority, if any
- ix. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as

amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iii. The project proponent shall install a system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area (at least at four locations one for small units) within and three outside the plant area at an angle of 120°each), covering upwind and downwind directions.
- iv. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- v. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- vi. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.
- vii. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with
- viii. The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.
- ix. Ambient air & noise levels should conform to prescribed standards both during day and night. Incremental pollution loads on the ambient air quality, noise especially during worst noise generating activities, water quality and soil should be periodically monitored during construction phase as well as operation & entire life phase as per the MoEF&CC guidelines, maintain the record for the same and all

the mitigation measures should be taken to bring down the levels within the prescribed standards.

III. Water quality monitoring and preservation

- i. The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- ii. The project proponent shall provide Multiple Effect Evaporator for the treatment of high TDS wastewater @ 12 KLD. The MEE condensate shall be utilized in the cooling tower. Separate ETP shall be installed for the treatment of low TDS wastewater @ 58.5 KLD and domestic effluent @ 23 KLD to be generated from the industry. The treated wastewater from the ETP shall be utilized onto land for plantation.
- iii. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.
- iv. Total fresh water requirement shall not exceed the 447 KLD. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.
- v. Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
- vi. The Company shall store the rainwater from the roof tops of the buildings and utilize the same for different industrial operations within the plant.
- vii. Water demand during construction should be reduced by use of ready mixed concrete, curing agents and other best practices.
- viii. Provide electromagnetic flow meter at intake of water supply from the at the borewell for abstraction of ground water if any, outlet of the ETP/STP and any pipeline to be used for re-using the treated wastewater back into the system and for horticulture purpose/green belt etc.
- ix. A proper record regarding groundwater abstraction, water consumption, its reuse and disposal shall be maintained on daily basis and shall maintain a record of readings of each such meter on daily basis.
- x. Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor-based control.
- xi. Separation of drinking water supply, treated sewage supply and treated permeate line leading back to the process water should be done by the use of different colors.

IV. Noise monitoring and prevention

- i. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- ii. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
- iii. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time

V. Energy Conservation measures

- i. The energy sources for lighting purposes shall preferably be LED based.
- ii. The project proponent shall make efforts to ensure the reduction of overall power demand which may be met by solar system including the provision of solar water heating or through any other innovative environment friendly techniques.

VI. Waste management

- i. All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.
- ii. Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed off after taking the necessary precautions for general safety and health aspects of people with the approval of competent authority. The project proponent will comply with the provisions of Construction & Demolition Waste Rules, 2016. Dust, smoke & debris prevention measures such as wheel washing, screens, barricading and debris chute shall be installed at the site during construction including plastic / tarpaulin sheet covers for trucks bringing in sand & material at the site.
- iii. Construction spoils, including bituminous material and other hazardous material, must not be allowed to contaminate watercourses. The dump sites for such material must be secured, so that they should not leach into the groundwater.
- iv. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- v. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- vi. The Project proponent shall abide by the provisions of Solid Waste Management Rules, 2016 (amended from time to time), if applicable.
- vii. The company shall undertake waste minimization measures as below: -
 - a. Metering and control of quantities of active ingredients to minimize waste.

- b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
- c. Use of automated filling to minimize spillage.
- d. Use of Close Feed system into batch reactors.
- e. Venting equipment through vapour recovery system.
- f. Use of high-pressure hoses for equipment clearing to reduce wastewater generation

VII. Green Belt

- i. The green belt shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guide lines in consultation with the State Forest Department. Total 6332 trees to be planted without accounting the shrubs and protect the same with tree guard made of concrete.

VIII. Safety, Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- iii. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iv. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- v. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.
- viii. A first aid room will be provided in the project both during construction and operation phase of the project.

IX Validity of Environmental Clearance.

- i. This environmental clearance will be valid for a period of seven years from the date of its issue or till the completion of the project, whichever is earlier

X. Miscellaneous

- i. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department etc. shall be obtained, by project proponent from the competent authorities including Punjab Pollution Control Board and from other statutory bodies as applicable.
- ii. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by State Environment Impact Assessment Authority, Punjab.
- iii. The environmental safeguards contained in the application of the promoter / mentioned during the presentation before State Level Environment Impact Assessment Authority/State Expert Appraisal Committee should be implemented in letter and spirit.
- iv. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- v. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- vi. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- vii. The project proponent shall monitor the criteria pollutants level namely; PM10, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- viii. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.

- ix. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- x. The project proponent shall inform the Regional Office of the Ministry and PPCB, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production/operation by the project.
- xi. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- xii. The project proponent shall abide by all the commitments and recommendations made in the EIA /EMP report, commitment made during Public Hearing and also that during their presentation to the SEAC and SEIAA.
- xiii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xiv. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xv. The SEIAA/Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xvi. The SEIAA/ Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xvii. The Regional Office of this Ministry or Punjab Pollution Control Board shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office and PPCB by furnishing the requisite data / information/monitoring reports.
- xviii. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

- xix. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

XI. ADDITIONAL CONDITIONS:

- i. The Environmental Clearance is granted to the project subject to the condition that industry shall obtain change of land use for the industrial purposes and submit a copy of the same to SEIAA. In case, CLU has been rejected for industrial use for any reason, SEIAA will not be responsible for the cost incurred on the project.
- ii. The project proponent shall make necessary arrangements for the recovery and reuse of steam condensate resulting from the indirect steam applications and shall not allow to discharge such effluents into drain.
- iii. The project proponent shall provide advanced scrubbing systems with proper neutralizing media to handle the acidic/alkaline emissions from storage, handling & processing activities. Wherever required, packed bed scrubbers will also be provided. The suction and scrubbing systems shall also be designed to handle the inherent odours from such units.
- iv. The project proponent shall provide the Air Pollution Control Devices as proposed by the PPCB to control the emissions generated from the boiler within the prescribed parameter.
- v. The project proponent shall practice rainwater harvesting to maximum possible extent. For this a village pond located at Village Bathlana, Tehsil & District Mohali, SAS Nagar, shall be adopted for desilting to recharge the rainwater. As an additional safety measure, the stream carrying waste water of the village shall be diverted in one corner of Phytoid plants trench (designed based on the technology developed by CSIR-NEERI's) divided in different parts, the overflow of each chamber shall be allowed to enter into another chamber which will ultimately lead to purification of water and collected into pond to avoid any contamination of ground water aquifer. Pond water will percolate through natural strata (without injection) to augment the ground water and remaining water shall be used for irrigation purposes by pumping method in the nearby fields.
- vi. The Project Proponent shall carry out toxicological study after operationalizing the unit.

Item No.197.07: Application for obtaining Environmental Clearance to M/s Viva API Labs Pvt. Ltd. for establishment of pharmaceutical unit at village- Raikot, Tehsil Raikot, District Ludhiana. (Proposal No. SIA/PB/IND2/176295/2020).

1.0 Background

The project proponent submitted an application for obtaining Environmental Clearance under EIA Notification, 2006 for setting up a new API Bulk Pharmaceutical manufacturing unit.

As per EIA Notification,14.09.2006 the project falls under "A" category but now, MOEF&CC has issued OM vide F.No.22-25/2020-IA.IIIII dated 13.04.2020 which states that "proposal or activities in respect of Active Pharmaceuticals Ingredients (API) received upto 30.09.2020 shall be appraised as "B2" projects to ensure drug availability or production to reduce the impact of Novel Coronavirus. The project proponent applied for obtaining EC on 29.09.2020 and thus the project can be considered in B-2 category.

2.0 Present Case

The project proponent proposes to set up a new API Bulk Drug Pharmaceutical manufacturing unit with a production capacity of 94 TPD. Further, the Project proponent has deposited the requisite EC processing fee vide receipt no. 4668 dated 05.10.2020.

The project proponent was raised EDS on 12.10.2020 to which PP replied on 09.02.2021 & on 19.02.2021 to which PP replied on 24.02.2021. Thereafter, the application for obtaining EC was accepted online on 24.02.2021.

Environmental Engineer, PPCB, RO4 Ludhiana on was requested vide email dated 25.02.2020 to send the report on 10.10.2020 & on 24.02.2021 to send the latest construction status report.

3.0 Deliberations during 197th meeting of SEAC held on 15.03.2021

The meeting was attended by the following:

1. Sh. Pardeep Goel, Senior Manager by Viva Chem APIs.
2. Mr. MAF Khan, DG Goswami, EIA coordinator, M/s Enkay Enviro Services Pvt. Ltd.

SEAC was apprised that the Punjab Pollution Control Board, Zonal Office Ludhiana, vide letter no. 2682 dated 12.03.2021 has sent the latest construction status report and the contents of the report are given as under:

- I. *The Project has neither started any construction nor installed any machinery at the proposed site, however is raising the level of the ground at site as the site is at lower level than the adjoining plot where the project proponent is having adjoining unit in the name of M/s Vivachem Intermediates Pvt. Ltd. Industrial Focal Point, Raikot, Ludhiana.*
- II. *The proposed project site is situated adjoining to the industrial Focal Point, Raikot, Ludhiana and has an adjoining operational industry M/s Vivachem Intermediates Pvt. Ltd. Industrial Focal Point, Raikot, Ludhiana which is sister concern unit. There are 4 more industries within 500 m radius of the proposed site.*
- III. *M/s Viva API LAB PVT. LTD has not yet obtained consent of establish/NOC from PPCB.*
- IV. *Distance of the proposed site from the boundary of the critically polluted area (Ludhiana) is approx.*
- V. *Since there are no specific siting guidelines framed by PPCB for such type of units general siting guidelines are applicable wherein:*

All Red/Orange/Green category of industries, which are to be established in the areas/ Zone other than designated/approved areas such as Industrial area/Industrial Estate/Industrial Focal Point/Approved Industrial Park/Industrial Zone of the statutory/non-statutory Master Plans, will be allowed to set up at a distance of 100 m outside the Municipal Council limits/Phirni of village/designated residential area/residential area comprising of 15 pucca houses by the competent authority of the State. In such cases, certificate of its location/situation from the nearest village lal lakir/phirni/ MC limits from the revenue authority such as Deputy Commissioner/Additional Deputy Commissioner or the Sub-Divisional Magistrate will be required for grant of consent to establish (NOC)/authorization by the Board.

However, the project proponent has submitted a letter in this office issued by District Town Planner, Ludhiana vided no. 2377 DTP(L) M2A dated 15.10.2020 stating that the land use classification of the site of the industry having land area 13.59 Acres bearing Khasra No. 215//11/2, 12/2, 13/1, 18/2, 19,20, 216//3, 4, 5/1, 6/2,7,8, 13/2, 14, 15/1, 15/2, 16, 17, 24/2/2, 25/1/1, 215//9/1, 10/2, 11/1, 12/1, 216//15/1/2/1,16/1/1 falls under MC limits of Raikot, Ludhiana. Proposed site falls under industrial zone as per Draft Master plan Raikot (2014-34) and all types of industrial units are allowed in this zone. However, the industry needs to obtain CLU from the concerned authority before starting any activity at site. The copy of the letter issued by DTP is also enclosed alongwith as attachment.

SEAC observed that as per the report from Punjab Pollution Control Board, no construction work has been started by the Project Proponent till date. SEAC allowed the Project Proponent to present the case and the Environmental Consultant of the Project Proponent presented the case as under:

1.	Nature of project (EC for new project/EC for Expansion/ EC for existing & proposed project)	Proposed Pharmaceuticals Manufacturing Unit at Village Raikot Tehsil-Raikot, District-Ludhiana, and State Punjab – 141109, by Viva API Labs Private Limited.		
2.	a) Category b) Activity (As per schedule appended to EIA Notification, 2006 as amended time to time)	B2 Activity- 5(f) Synthetic organic chemicals industry (dyes & dye intermediates; Bulk.		
3.	a. Whether the project falls in the critical polluted area notified by MoEF&CC/CPCB. (Yes/No) b. If no and the proposed project site lies in the same or neighbouring district of critically polluted area, then details the distance of project site from the boundary of critically polluted area verified by the regional office of SPCB. (Submitted/Not submitted)	NO		
4.	a. Total Project Cost (In Crores) :	135.91 crores		
5.	Details of technology proposed for control of emissions &	Particulars	Capacity	Technology
		Effluent Treatment Plant	300 KLD to treat 248 KLD of	ETP, RO, MVR/MEE, STP,

	effluents generated from project		industrial wastewater			
		Domestic effluent	25 KLD STP proposed			
6.	Plot Area Details	S. No.	Land Use	Proposed Area (Acres)	Percentage (%)	
		1.	Plant Area, Office Area (Ground coverage)	8.007	44.30%	
		2.	Paved Area (Road, Corridor, Parking and Drainage)	3.87	21.41%	
		3.	Green Belt Area & Open Area	6.198	34.29%	
			Total	18.075	100	
7.	Type of project land as per master plan (Industrial/Agriculture/Any other),	Industrial land use as per DTP vide letter no. 2803 dated 20.11.2020 and letter no. 2377 dated 15.10.2020				
8.	Details 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	NA , being new industry				
9.	a. Whether any litigation pending against the project or any direction/order passed by SPCB/ Court of Law against the project, if so, details there of shall also be included.	Undertaking submitted in this regard				
10.	Hazardous/Non-Hazardous Waste Generation details & their storage, utilization and its disposal. Copy of Agreement clearly mentioning the Quantity	S.N	Type of Waste	Category (As per Schedule)	Generation (TPA /KLA)	Mode of Treatment and Disposal

		1	Distillation Residue	20.3	3.5 TPA	To be Sent to Authorized Dealer for Disposal or In house incineration
		2	Distillation Residue	28.1	10.0 TPA	Sent to Authorized Dealer for Disposal or In house incineration
		3	Mobile Oil	5.1	1.0 KLA	Sale to Authorized Recyclers
		4	Spent Catalyst	28.2	2.00 TPA	To be Sent to TSDF facility or in house incineration
		5	Spent Carbon	28.3	4.00 TPA	Send to TSDF facility or in house incineration
		6	Off specification products	28.4	2.00 TPA	To be Sent to TSDF facility or in house incineration facility
		7	Date Expired Products	28.5	2.00 TPA	To be Sent to TSDF facility or in house incineration
		8	Spent Solvents	28.6	20.0 TPA	Sent to Authorized Dealer for Disposal or In house incineration
		9	Empty Barrels/ Containers/Liners Contaminated with Hazardous Chemicals/Waste	33.1	15.00 TPA	Sale to Authorized recyclers
		10	Contaminated Cotton Rags or other	33.2	1.000 TPA	To be Sent to TSDF facility or in house incineration

			Cleaning Materials			
		11	ETP Sludge	35.3	36.00 TPA	To be Sent to TSDF facility
		12	Spent Carbon or Filter Medium	36.2	1.000 TPA	To be Sent to TSDF facility or in house incineration
		13	Sludge from Wet Scrubbers	37.1	0.3 TPA	To be Sent to TSDF facility
		14	Ash from Incinerator	37.2	15.0 TPA	To be Sent to TSDF facility
		15.	Boiler Ash	Other category	5000 TPA	Send to Land Filling in low land area
		16.	Domestic waste	Other category	20 TPA	Pick up by MC Raikot
		17.	MS Scrap & Waste paper	Other category	20 TPA	Sale to recycler
11.	Solid Waste generation and its mode of disposal:	Cate gory	Type	Mode of Disposal		
		Boiler Ash	Other category	Send to Land Filling in low land area		
		Dome stic waste	Other category	Pick up by MC Raikot		
12.	Waste water generation & its disposal Arrangement in Operation Phase:	S. No.	Liquid Effluents	Quan tity	Uni t	Mode of Treatment/ Disposal

		1.	Industrial waste water	248	KL D	Low TDS Effluent Treated in To ETP (capacity 300 M3/Day) &ETP comprises of Four Stage, One Stage Anaerobic, One Stage MBBR and One Stage Aeration and Tertiary Treatment RO System. After treatment treated water is used in cooling tower and process. High TDS effluent Treated in to MEE/MVR (capacity 50 M ³ /Day). Condensate recovery will be reused in plant. MEE/MVR salt will be disposed into TSDF
		2.	Domestic waste water	18	KL D	The domestic sewage is being/will be treated in proposed STP having capacity of 25 KLD. Treated water is being utilized for plantation
13.	Details of the block in which the project site is located as per CGWA guideline (Notified/ Non-Notified area and name of block)	The industry will utilize canal water for fresh water requirement.				
14.	Breakup of Water Requirements & its source in Operation Phase:	S. No.	Purpose	Fresh water (KLD)	Recycled Water (KLD)	Water Demand (KLD)
		1.	Domestic	20	-	20
		2.	Industrial	528	246 Cooling Tower – (From ETP- 212 KLD & MEE -34 KLD)	774
		3.	Green Belt Development.	120		120 18* (*re-use from

						STP)
		Total	668	246	914	
		Sources of water: Surface water				
15.	Water balance chart for Summer, Rainy and Winter seasons	Submitted.				
16.	Blockwise details of no. of trees to be planted in proposed greenbelt area(1500 Trees to be planted @ 10000 Sqm area):	Plan submitted				
17.	a. EMP Budget details	EMP budget details : During operational phase				
		S. No	Description of Item	EMP Cost (Rs. in Lacs) Capital	EMP Cost (Rs. in Lacs/annum) Recurring	Basis for cost estimates
		1	Air pollution control & Noise Pollution Monitoring	10	3	Air pollution controlling equipment's, Monitoring of Air Environment, Ambient noise monitoring.
		2	Water Pollution control	340	125	Capital cost would include cost of ETP,RO, MEE/MVR and STP including Civil work, mechanical work, and electrical work and piping work is included. Recurring cost is cost of

b. Details of Environment Management Cell (EMC) responsible for implementation of EMP					treatment of waste water at site
	3	Solid and hazardous waste Management	15	5	Capital cost would include providing storage space for hazardous waste. Recurring cost would include cost of transportation & disposal,
	4	Environment monitoring and management	10	5	The recurring cost would be incurred on hiring of consultants and payment of various statutory fees to regulatory agencies.
	5	Occupational Health	15	5	Periodic Health checkup, PPEs etc
	6	Green belt &	12	3	Capital cost would include cost of plant species and labor cost and recurring cost would include cost of maintenance of that green belt including cost of required water for plant growth
		Rainwater Harvesting	40	5	
	7	Air Pollution	120	6	ESP

			Control Devices			
			Total	562	157	
		Submitted				
18.	Details of the activities proposed to be covered under CER be provided in below format	Submitted				
19.	Project area involves forest land, (Yes/No), If yes, then details of the the extent of area involved and copy of permission & approval for the use of forest land	No				
20.	Traffic Study Details:	Submitted				

SEAC raised following observations to the project proponent:

Sr. No.	Observations	Reply
1.	The Project Proponent shall consider the cost per plant as Rs. 600.	Agreed by the Project Proponent.
2.	The project proponent shall submit proper layout plan having proper dimensions of the green area.	Submitted
3.	The project proponent shall carryout plantation in the first and second year and submit the revised EMP in this regard.	Submitted

S. No.	Year	Proposed No. of plants	Proposed Species
1	Ist Year	2000	<i>Azadirachta indica</i> A.juss, <i>Cassia siamea</i> Lamk, <i>Polyalthia longifolia</i> (Sonn.) Thwaites; <i>Acacia sapota</i> Linn, <i>Aegle marmelos</i> (Linn) Correa; <i>Albizia lebeck</i> Benth; <i>Anonasquamosa</i> Linn.; <i>Anthocephalus chinensis</i> , <i>Balanites roxburghii</i>

2	IIInd Year	1800	<i>Planch; Bauhinia semlaWanderlin; Bauhinia varigeta Linn; Callistemon citrinus; Carissa spinarum Linn; Cassia fistula; Dalbergiasisoo; Delonixregia; Emblicaofficinali; Mangiferaindica etc</i>
Total		3800	

Budget

A capital cost provision of Rs.22,80,000/- has been kept for development of greenbelt as given in table below The budget includes cost of digging of pits, fertilizers, saplings and maintenance @600/- per plant in two years

Year	I st Year	II nd Year	Total
No. of plants	2000	1800	3800
The budget includes cost of digging of pits, fertilizers, saplings and maintenance @ Rs. 600/- per sapling	Rs.12,00000/	Rs. 10,80,000/	Rs. 22,80,000/

4.	The Project Proponent shall obtain permission from PWRDA for abstraction of ground water.	Agreed by the Project Proponent.
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Recommendations

After detailed deliberations, SEAC decided to award '**Silver Grading**' to the project proposal under category B2, Activity 5 (f) as per MOEF&CC OM dated 13.04.2020 and to forward the application to SEIAA with the recommendations to grant Environmental Clearance for establishment of pharmaceutical unit at village- Raikot, Tehsil Raikot, District Ludhiana M/s Viva API Labs Pvt. Ltd. as per the details mentioned in the application & subsequent presentation /clarifications made by the project proponent & his consultant and conditions are as under:

I. Statutory compliance

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The

recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area)

- iv. The project proponent shall obtain the necessary permission from the Central Ground Water Authority/ competent authority concerned, in case of drawl of ground water and also in case of drawl of surface water required for the project. In case of non- grant of permission by CGWA for ground water abstraction, the industry shall make alternative arrangements by using surface water or treated city sewage effluent after obtaining permission from competent authority.
- v. The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the Punjab State pollution Control Board/ Committee.
- vi. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
- vii. The project proponent shall comply with the siting criteria, standard operating practices, code of practice and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such type of units.
- viii. The project proponent shall comply with the CLU conditions imposed by competent authority, if any
- ix. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iii. The project proponent shall install a system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area

(at least at four locations one for small units) within and three outside the plant area at an angle of 120°each), covering upwind and downwind directions.

- iv. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- v. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- vi. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.
- vii. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with
- viii. The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.
- ix. Ambient air & noise levels should conform to prescribed standards both during day and night. Incremental pollution loads on the ambient air quality, noise especially during worst noise generating activities, water quality and soil should be periodically monitored during construction phase as well as operation & entire life phase as per the MoEF&CC guidelines, maintain the record for the same and all the mitigation measures should be taken to bring down the levels within the prescribed standards.

III. Water quality monitoring and preservation

- i. The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- ii. The project proponent shall provide Multiple Effect Evaporator of capacity @ 50 KLD for the treatment of high TDS wastewater generated from the process @ 14 KLD and the RO reject @ 22 KLD. The MEE condensate shall be utilized in the cooling tower. Separate ETP @ 300 KLD shall be installed for the treatment of low TDS wastewater, Boiler blowdown, Cooling Tower blowdown and wastewater generated from flower washing and Equipment washing. The treated wastewater from the ETP shall be treated in RO and the RO permeate shall be utilized in the cooling tower. The domestic sewage (18 KLD) will be treated in proposed STP having capacity of 25 KLD.
- iii. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control

Board while granting Consent under the Air/Water Act, whichever is more stringent.

- iv. Total fresh water requirement shall not exceed the 447 KLD. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.
- v. Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
- vi. The Company shall store the rainwater from the roof tops of the buildings and utilize the same for different industrial operations within the plant.
- vii. Water demand during construction should be reduced by use of ready mixed concrete, curing agents and other best practices.
- viii. Provide electromagnetic flow meter at intake of water supply from the at the borewell for abstraction of ground water if any, outlet of the ETP/STP and any pipeline to be used for re-using the treated wastewater back into the system and for horticulture purpose/green belt etc.
- ix. A proper record regarding groundwater abstraction, water consumption, its reuse and disposal shall be maintained on daily basis and shall maintain a record of readings of each such meter on daily basis.
- x. Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor-based control.
- xi. Separation of drinking water supply, treated sewage supply and treated permeate line leading back to the process water should be done by the use of different colors.

IV. Noise monitoring and prevention

- i. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- ii. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
- iii. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time

V. Energy Conservation measures

- i. The energy sources for lighting purposes shall preferably be LED based.
- ii. The project proponent shall make efforts to ensure the reduction of overall power demand which may be met by solar system including the provision of solar water heating or through any other innovative environment friendly techniques.

VI. Waste management

- i. All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.
- ii. Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed off after taking the necessary precautions for general safety and health aspects of people with the approval of competent authority. The project proponent will comply with the provisions of Construction & Demolition Waste Rules, 2016. Dust, smoke & debris prevention measures such as wheel washing, screens, barricading and debris chute shall be installed at the site during construction including plastic / tarpaulin sheet covers for trucks bringing in sand & material at the site.
- iii. Construction spoils, including bituminous material and other hazardous material, must not be allowed to contaminate watercourses. The dump sites for such material must be secured, so that they should not leach into the groundwater.
- iv. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- v. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- vi. The Project proponent shall abide by the provisions of Solid Waste Management Rules, 2016 (amended from time to time), if applicable.
- vii. The company shall undertake waste minimization measures as below: -
 - a. Metering and control of quantities of active ingredients to minimize waste.
 - b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - c. Use of automated filling to minimize spillage.
 - d. Use of Close Feed system into batch reactors.
 - e. Venting equipment through vapour recovery system.
 - f. Use of high-pressure hoses for equipment clearing to reduce wastewater generation

VII. Green Belt

- i. The green belt shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guide lines in consultation

with the State Forest Department. Total 3764 trees to be planted without accounting the shrubs and protect the same with tree guard made of concrete.

VIII. Safety, Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- iii. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iv. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- v. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.
- viii. A first aid room will be provided in the project both during construction and operation phase of the project.

IX. Validity of Environmental Clearance.

- i. This environmental clearance will be valid for a period of seven years from the date of its issue or till the completion of the project, whichever is earlier

X. Miscellaneous

- i. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department etc. shall be obtained, by project proponent from the competent authorities including Punjab Pollution Control Board and from other statutory bodies as applicable.
- ii. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by State Environment Impact Assessment Authority, Punjab.

- iii. The environmental safeguards contained in the application of the promoter / mentioned during the presentation before State Level Environment Impact Assessment Authority/State Expert Appraisal Committee should be implemented in letter and spirit.
- iv. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- v. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- vi. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- vii. The project proponent shall monitor the criteria pollutants level namely; PM10, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- viii. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- ix. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- x. The project proponent shall inform the Regional Office of the Ministry and PPCB, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production/ operation by the project.
- xi. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- xii. The project proponent shall abide by all the commitments and recommendations made in the EIA /EMP report, commitment made during Public Hearing and also that during their presentation to the SEAC and SEIAA.
- xiii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).

- xiv. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xv. The SEIAA/Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xvi. The SEIAA/ Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xvii. The Regional Office of this Ministry or Punjab Pollution Control Board shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office and PPCB by furnishing the requisite data / information/monitoring reports.
- xviii. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xix. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

XI. ADDITIONAL CONDITIONS:

- i. The Environmental Clearance is granted to the project subject to the condition that industry shall obtain change of land use for the industrial purposes and submit a copy of the same to SEIAA. In case, CLU has been rejected for industrial use for any reason, SEIAA will not be responsible for the cost incurred on the project.
- ii. To achieve the Zero Liquid Discharge, waste water generated from different industrial operations should be properly collected, treated to the prescribed standards and then recycled or reused for the identified uses.
- iii. The project proponent shall make necessary arrangements for the recovery and reuse of steam condensate resulting from the indirect steam applications and shall not allow to discharge such effluents into drain.
- iv. The project proponent shall provide advanced scrubbing systems with proper neutralizing media to handle the acidic/alkaline emissions from storage, handling & processing activities. Wherever required, packed bed scrubbers will also be provided. The suction and scrubbing systems shall also be designed to handle the inherent odours from such units.

- v. The project proponent shall provide the Air Pollution Control Devices as proposed by the PPCB to control the emissions generated from the boiler within the prescribed parameter.
- vi. The project proponent shall practice rainwater harvesting to maximum possible extent. For this village ponds located at Villages- Jalaldiwal, Ramgarh Sivian, Bassian, Johlan, Tajpur, Talwandi Rai, Andlu, Tehsil Raikot, District Ludhianashall be adopted for desilting to recharge the rainwater. As an additional safety measure, the stream carrying waste water of the village shall be diverted in one corner of Phytoid plants trench (designed based on the technology developed by CSIR-NEERI's) divided in different parts, the overflow of each chamber shall be allowed to enter into another chamber which will ultimately lead to purification of water and collected into pond to avoid any contamination of ground water aquifer. Pond water will percolate through natural strata (without injection) to augment the ground water and remaining water shall be used for irrigation purposes by pumping method in the nearby fields.

Item No. 197.08 Application for issuance of TORs for expansion in existing steel manufacturing unit having existing capacity 28,000 TPA of steel Billets/Ingots to 2,90,500 TPA of steel Billets/Ingots and Rolled/Flats products having capacity 1,40,500 TPA to 2,90,500 TPA by addition of induction Furnace at Village- Harian, P.O. Uppal, Machhiwara road, Tehsil- Koom Kalan, District- Ludhiana, Punjab by M/s Aarti Steels Ltd. (Proposal No. SIA/PB/IND/60578/2021).

The project proponent has applied for issuance of TORs to M/s Aarti Steels Ltd. Ltd for expansion in existing steel manufacturing unit having existing capacity 28,000 TPA of steel Billets/Ingots to 2,90,500 TPA of steel Billets/Ingots and Rolled/Flats products having capacity 1,40,500 TPA to 2,90,500 TPA by addition of induction Furnace at Village- Harian, P.O. Uppal, Machhiwara road, Tehsil- Koom Kalan, District- Ludhiana, Punjab. Project is covered under Activity 3(a) & Category 'B1' as per EIA notification-2006.

1. The project proponent submitted the Form I, Pre-feasibility report and other additional documents on online portal. He has also deposited the requisite fee through NEFT NO. SBINR52021021211019331 dated 12.02.2021.
2. The project proponent during the presentation to the committee be ask to present the applicability of General Condition, suitability of site, land details etc.
3. The Environmental Engineer PPCB, RO1 Ludhiana was requested vide e-mail dated 04.03.2021 and 09.03.2021 to send the latest construction status report and the said report is awaited.

1.0 Deliberations during 197th meeting of SEAC held on 15.03.2021

The meeting was attended by the following:

1. Sh. Rajesh Sharma. Chief Financial Officer.
2. Mr. Sital Singh, EIA coordinator, M/s CPTL Laboratories, Mohali, Environmental Consultant of the Project Proponent.

SEAC was apprised that the Punjab Pollution Control Board, Zonal Office 1, Ludhiana vide letter no. 925 dated 15.03.2021 has sent the latest construction status report and the contents of the report are given as under:

1. *The site is located on Kohara, Machhiwara Road, District Ludhiana.*

2. The civil work of the ground level foundation and steel structure work is under process at site. The civil work is recently started, hence presently no machinery installed/arrived at site.

3. There are two industrial units, around 90-100 labour quarter and 40-50 shops within 500 mtr radius of the site.

4. This project has already obtained consent to establish NOC from the Board for the installation of one induction furnace of capacity 8 TPH with one rolling Mill. This NOC vide no. CTE/Fresh/LDH1/2020/14178271 dated 25.11.2020 valid upto 24.11.2021.

5. The project site is located more than 20 k.m. from the boundary of critical polluted area (Ludhiana).

6. As per the DTP certificate issued vide memo no.2457 dated 23.10.2020 site of the project falls under Industrial Zone as per Master Plan, Ludhiana (2007-31). Hence, the site is meeting with sitting guidelines, being located in Industrial Zone.

SEAC observed that as per the report from Punjab Pollution Control Board civil work of the ground level foundation and steel structure work was under process at site. The civil work was recently started, hence presently no machinery installed/arrived at site. As such, the case would not be considered as a violation case, as no new machinery has been installed at the site by the Project Proponent and only ground work had been started till date.

SEAC allowed the Project Proponent to present the case and the Environmental Consultant of the Project Proponent presented the case as under:

Sr. No.	Description	Details
1.	In case of expansion projects, whether granted EC earlier, if Yes, then provide its details	It is an expansion project. But due to existing capacity of 28,000 TPA, earlier EC was not required.
2.	Nature of project (Fresh EC/EC for Expansion/New)	Fresh EC
3.	a) Category b) Activity (As per schedule appended to EIA Notification, 2006 as amended time to time.)	(a) B1 (b) Metallurgical Industries (ferrous & non ferrous) (8), Schedule 3(a) as per EIA notification-2006.

4.	Whether project falls within 5km from the boundary of critically polluted area (Yes/No)	The project sites is located at distance of more than 5.0 km from MC Limit Ludhiana.			
5.	Existing production Capacity (TPA)	Steel Billet/Ingots:28000 TPA Rolled/Flats/Industrial Rounds- 1,40,000TPA			
6.	Details TOR processing fee submitted (25% of the total project cost)	An amount of Rs. 5,10,100/- is submitted through RTGS- UTR NO: SBINR52021021211019331 on dated 12 th Feb., 2021			
7.	Whether the project is neither located near to PLPA area or fall in the PLPA area	The project site is neither located near to PLPA area nor fall in PLPA area.			
8.	Classification/Land use pattern as per Master Plan	The PP has obtained CLU from the Department of Town & Country Planning for an area of 12.625 acres vide letter no. 2666 dated 07.12.2020. The industry has taken another 10.275 acres from its sister concern namely M/s Aarti international Ltd. for which the latter had already obtained CLU from Department of Town & Country Planning vide letter no. 6162 dated 14.12.2016.			
9.	Details of block as per CGWA guideline (Notified/ Non Notified area) in which project site is located	The project site falls in Doraha Block which is notified area as per CGWA guidelines.			
10	Project Area Details:				
	S. No.	Details	Existing Land	Proposed Additional Land	Total land after Expansion
	1.	Plot Area (in sqm)	92673	---	92673
	2.	Current Price of land (Rs. in Crores)	Lease land		

11	Total project cost breakup including cost of land, Building, Infrastructure, APCD and Plant & Machinery duly certified by Chartered Engineer/ Approved valuer or Chartered Accountant in the following format:				
	S. No.	Description	Existing (Rs. in Crores)	Proposed (Rs. in Crores)	Total Cost (Rs. in Crores)
	1	Cost of Land at current price level & area in sqm	5.64	6.21	11.85
	2	Building	28.64	62.75	91.39
	3	APCD	0.50	3	3.5
	4	* Plant & Machinery	38.47	58.83	97.30
	Total		73.25	130.79	204.04
	*Project proponent shall assess the cost of APCD/ESP/ZLD/ETP/STP/Continuous online monitoring system etc from reputed supplier and shall include it in the Plant and machinery/APCD cost as per Quotation and Environment Management Plan. Accordingly, total project cost should be included in the EIA report.				
12	Raw Material requirement as per following format:				
	S.No.	Raw Material name	Existing (TPD)	Proposed (TPD)	After Expansion (TPD)
	1.	MS Scrap, CI, Sponge Iron, Ferro alloys	88	825	913
13	Production Capacity as per following format :				
	S.No.	Product name	Existing (TPD)	Proposed (TPD)	After Expansion (TPD)
	1.	Steel Billets/ Ingots	80	750	830

14	Details of major productive machinery/plant				
	S. No.	Particulars	Existing	Proposed	After Expansion
	1.	Induction Furnace, rolling mill (Hot/cold rolled) & CCM	1X8TPH, CONCAST and Rolling Mill	2X25 TPH, LRF 30TPH, VD and upgradation of Rolling mill	1X8 TPH, 2X25 TPH, LRF 30TPH, VD, CONCAST and upgradation of Rolling mill
15	Status of Proposed ToRs		Standard TORs submitted.		

SEAC raised following observations to the project proponent:

Sr. No.	Observations	Reply
1.	The Project Proponent shall obtain permission from PWRDA for abstraction of ground water.	Agreed by the Project Proponent.

The Environmental Consultant Project Proponent informed the Committee that the study to collect the baseline data was started in the month of February 2021 and this study be allowed to be used for preparation of EIA report. The SEAC accepted the request of the Project Proponent in this regard.

After detailed deliberations, it was decided to categorize the project under Activity 3(a); B-1 with public consultation as required for the project. The baseline study shall be carried out by Environmental Consultant for one-month additional study with effect from date of application of ToRs (except monsoon season), which shall include at least five days of traffic study. The Committee approved the following Terms of Reference for expansion in existing steel manufacturing unit having existing capacity 28,000 TPA of steel Billets/Ingots to 2,90,500 TPA of steel Billets/Ingots and Rolled/Flats products having capacity 1,40,500 TPA to 2,90,500 TPA by addition of induction Furnace at Village-Harian, P.O. Uppal, Machhiwara road, Tehsil- Koom Kalan, District- Ludhiana, Punjab by M/s Aarti Steels Ltd. for preparing Environmental Impact Assessment (EIA) report for the proposed project and recommended to SEIAA to issue the following TORs:

A. STANDARD TERMS OF REFERENCE

1) Executive Summary

Report in about 8-10 pages incorporating the following:

- (i) Project name and location (Village, Distt., 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 its acquisition, nearby (in 2-3 km.) water body, population, within 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 groundwater 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/CER plan with proposed expenditure.
- (xiv) Occupational Health Measures
- (xv) Post Project monitoring plan
- (xvi) Synopsis of the project (as available on web site i.e. www.pbdecc.gov.in)

2) Introduction

- (i) Details of the EIA Consultant including NABET accreditation
- (ii) Information about the project proponent
- (iii) Importance and benefits of the project

3) 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 (breakup for induction and rolling mill), power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract).
- (viii) Process description along with major equipment and machineries, process flow sheet (quantitative) from raw material to products to be provided
- (ix) Hazard identification and details of proposed safety systems.
- (x) In case of Expansion/modernization proposals:
 - a) 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.
 - b) 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.

4) 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 top 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) Details w.r.t. option analysis for selection of site.
- (iv) Co-ordinates (lat-long) of all four corners of the site.
- (v) Google map-Earth downloaded of the project site
- (vi) Layout maps indicating existing unit as well as proposed unit indicating storage area of raw material, finished products, greenbelt area with marking of tree, Location of STP/ETP, Solid waste storage area, Parking space, Firefighting equipment layout, First aid room, Location of Tube wells, DG Sets & Transformers and any other utilities
- (vii) If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
- (viii) Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
- (ix) 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)
- (x) 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.
- (xi) Geological features and Geo-hydrological status of the study area shall be included.
- (xii) 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)
- (xiii) Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- (xiv) R&R details in respect of land in line with state Government policy

- 5) 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.
- 6) 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 PM 10, PM2.5, SO₂, NO_x, 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 (100m upstream and downstream) and other surface drains at eight locations as per CPCB/MoEF& CC guidelines.
 - (v) Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF& CC.
 - (vi) Groundwater monitoring at minimum at 8 locations shall be included.
 - (vii) Noise levels monitoring at 8 locations within the study area.
 - (viii) Soil Characteristic as per CPCB guidelines.

- (ix) Traffic feasibility / serviceability study for at least 5 days based on Indian Standard Codes. Further it shall also include the details of cross section of the road on which industry is located, vehicles movement w.r.t. the industry, traffic load of other vehicles on the road incorporating the haulage time for the vehicles for loading/unloading within the premises and parking requirement to avoid the traffic congestions on the link and adjoining roads. Traffic study shall be conducted considering the traffic of the industries located in the vicinity.
 - (x) 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.
 - (xi) Socio-economic status of the study area.
- 7) 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.
 - (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 in 33 % area with not less than 1,500 trees per hectares giving details of species, width of plantation, planting schedule, post plantation maintenance plan for 3 years shall be included. The green belt shall be around the 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 alternative sites shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the groundwater and also to use for the various activities to conserve freshwater 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 the District Disaster Management Plan.

8) Occupational health

- (i) Details of existing Occupational & Safety Hazards. What are the exposure levels of above-mentioned hazards and whether they are within the Permissible Exposure Level (PEL)? If these are not within PEL, what measures the company has adopted to keep them within PEL so that the 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 above-mentioned parameters as per age, sex, duration of exposure and department wise.
- (iii) Annual report of the 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.

9) 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 processes/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 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 shall be detailed in the EIA report
- 10) 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 the operation phase.

11) Enterprise Social Commitment (ESC)

- (i) To address the Public Hearing issues, 2.5% of the total project cost of (Rs.____crores), amounting to Rs.____crores, shall be earmarked by the project proponent, towards Enterprise Social Commitment (ESC). Distinct ESC projects shall be carved out based on the local public hearing issues. Project estimate shall be prepared based on PWD schedule of rates for each distinct Item and schedule for time-bound action plan shall be prepared. These ESC projects as indicated by the project proponent shall be implemented along with the main project. Implementation of such program shall be ensured by constituting a Committee comprising of the project proponent, representatives of village Panchayat & District Administration. Action taken report in this regard shall be submitted to the Ministry's Regional Office. No free distribution/donations and or free camps shall be included in the above ESC budget
- 12) 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.
- 13) A tabular chart with index for points wise compliance of above TORs.

B. STANDARDISED SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR INDUCTION/ ARC FURNACES/CUPOLA FURNACES 5TPH OR MORE

- (i) Details of proposed layout clearly demarcating existing & proposed features of the project within the plant.
- (ii) Total no. of furnaces & details including capacity of each furnace.
- (iii) Detail of the mechanical shredder to reduce the size of the raw material.
- (iv) Complete process flow diagram describing each unit, its processes, and operations, along with material and energy inputs and outputs (material and energy balance).
- (v) Details on the design and manufacturing process for all the units.
- (vi) 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.
- (vii) Details on the requirement of raw materials, its source, and storage at the plant.
- (viii) Details on the requirement of energy and water along with its source and authorization from the concerned department. Location of water intake and outfall points (with coordinates).
- (ix) Details on toxic metal content in the waste material and its composition and end-use (particularly of slag).
- (x) 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.

C. ADDITIONAL SPECIFIC TORS DECIDED DURING MEETING OF SEAC

1. Public consultation is required for the projects as not located in notified industrial parks/estates.
2. Submit proof of ownership of land (existing owner) such as copy of latest Jamabandi (not more than one month old) and credible document showing status of land acquisition w.r.t. project site as prescribed in OM dated 07.10.2014 issued by MoEF).
3. Submit dully filled prescribed field data sheets and analysis reports along with exact location of sampling / monitoring point marked on the layout map. Also submit the status of approvals of Laboratories.
4. Submit cost of the project duly certified by Chartered Engineer/ Approved valuer / Chartered Accountant. In the absence of above, the project proponent may submit self-certified detail of cost of the project mentioning the cost of Land, building, infrastructure and plant & machinery

5. Certificate from the concerned authority w.r.t the location of protected areas as notified under the Wildlife Protection Act, 1972 within 5 km radius from the boundary of the project site.
6. Certificate from the Department of Town & Country Planning or concerned authorities to support the claim made by project proponent that the project site is located in the industrial zone as per the provisions of Master Plan of Town/City in the jurisdiction of which the project site is located otherwise project proponent shall submit the Change of land use of the project site.
7. Compliance of the siting criteria, standard operating practices, code of practice, and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such type of units.
8. Necessary permissions from the Central Groundwater Authority (CGWA)/ State Groundwater Authority (SGWA)/concerned authority for the abstraction of groundwater for the existing requirements as well as for the expanded unit. In case of not allowing such permission by the concerned authority for the abstraction of additional groundwater for the expanded project, the project proponent shall propose alternative arrangements to meet out the additional water requirements. It shall be ensured that: -
 - a) In the projects where groundwater is proposed as a water source, the project proponent shall apply to the Central Groundwater Authority (CGWA)/ State Groundwater Authority (SGWA), as the case may be, for obtaining No Objection Certificate (NOC) if applicable.
 - b) Approval /permission of the CGWA/SGWA shall be obtained before drawing groundwater for the project activities.
 - c) In the absence of approval, submit a copy of acknowledgment along with a set of application filed to CGWA /Competent Authority for obtaining permission for the abstraction of groundwater
9. Minimize the water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.
10. STP for treatment of wastewater & re-utilization of the treated water for core/non-core activities so as to achieve the Zero Liquid Discharge Condition as per the III (iv) of OM dated 09/08/2018 issued by the MoEF&CC for such units.
11. Reuse of cooling tower blow down, simultaneously ensuring the standards prescribed for such purge waters. If required, necessary arrangements shall be made to keep this waste stream within the parameters required for reuse.
12. In case of any acid pickling activity, the spent acid/effluents generated from such activities shall be utilized through authorized re-processors for converting the same into useful by-products like FeSO₄ etc. An agreement to this effect shall be made with the authorized agencies.

13. Adequate area to be reserved and marked on the layout plan for the green belt as per the conditions laid down by the MoEF&CC as per the Standard EC Conditions prescribed for Induction/ Electric Arc Furnace & Rolling Mills circulated vide OM dated 09/08/2018.
14. Detailed study report along with calculation for reserving land for loading or unloading of raw material, products, slag, hazardous waste as well as for storage of these materials and the area to be reserved for parking incorporating the time required for loading and unloading of vehicles for respective activities and minimum/maximum period for which storage of the above material is required in the premises. The areas for the respective activities to be marked on the layout plan.
15. Action plan for the compliance of standard operating procedures and up-gradation of suction and treatment arrangement for the secondary emissions as prescribed by the State Pollution Control Board or by CPCB/MoEF&CC.
16. Compliance of standard operating procedures and up-gradation of suction/treatment systems for the control of secondary emissions within the time frame prescribed by the State Pollution Control Board. Similar action is to be implemented in the proposed expansion project.
17. Whole of the vehicle movement area as well as the approach road to the gate /weighing bridge shall be paved with pucca/metalled / cement concrete road to control the dust emissions expected from the vehicle movement.
18. The vehicles to be used for loading/unloading purposes shall not be parked along the roadside so as to avoid the traffic congestion and dedicated parking place to be provided for the same.
19. Adopt green technologies to conserve the water and energy including shearing/cutting / bundling machines. Also, to provide abrasive resistant fire bricks in the crucibles to reduce the periodic maintenance & disposal of discarded fire bricks.
20. Use of natural gas (if available) as substitute fuel wherever possible in the existing industry/ for the expansion project.
21. Delineate the concrete proposal regarding activities to be undertaken under Corporate Environmental Responsibility indicating the followings: -
 - i) various activities to be undertaken as per the provision of OM dated 01.05.2018
 - ii) proportionate provisions of funds,
 - iii) the period in which CER activities is to be implemented
 - iv) the person(s) responsible for the implementation.
22. Submit compliance w.r.t. condition no.II [(i) & (iii)] subtitled as "Air Quality Monitoring & Preservation" regarding continuous emission monitoring system

and continuous ambient air quality monitoring as prescribed in the Standard EC Conditions for Induction/ Electric Arc Furnace & Rolling Mills issued by the MoEF&CC, New Delhi vide OM dated 09/08/2018.

23. Examine and submit the proposal for: -
- Recovery of iron from slag before disposing of it.
 - Identify the areas for utilization of slag in a scientific manner and explore its usage in cement/construction industry/manufacturing of pavers & tiles/road laying etc.
 - Recovery of precious metals like Zinc, lead and iron etc. from the APCD dust (Hazardous waste) through authorized re-processor.
24. Air Pollution Control Arrangement details shall be provided as below:

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

25. Submit compliance regarding the installation of Pulse jet bag filter with offline cleaning technology as APCD with the proposed induction furnace.
26. List the species with heavy foliage, broad leaves and wide canopy cover. The landscape planning should include plantation of native species. Water intensive and/or invasive species should not be used for landscaping

The following general points shall be noted:

- The EIA document shall be printed on both sides, as for as possible.
- All documents shall be properly indexed, page numbered.
- Period/date of data collection shall be clearly indicated.
- The letter/application for environmental clearance shall quote the MOEF / SEIAA file No. and also attach a copy of the letter.
- The copy of the letter received from the Ministry / SEIAA shall be also attached as an annexure to the final EIA-EMP Report.

- (vi) The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report.
- (vii) 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.
- (viii) 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.

The Terms of Reference (ToR) prescribed by the State Expert Appraisal Committee (SEAC), Punjab should be considered for the 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 IIIA 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 the 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.

If any part of the data/information submitted by the project proponent is found to be false or misleading at any stage, then SEIAA & SEAC will not be responsible for the expenditure incurred on the project due to the issuance of this ToR or subsequent work carried out by the project proponent for conducting EIA study or for any other activity related to the project.

The 'Terms of Reference' (TORs) prescribed will be valid for a period of three years from its issuance. The final EIA report shall be submitted to the SEIAA, Punjab for obtaining environmental clearance.

Item No. 197.09 Application for issuance of TORs for manufacturing of 4,72,500 TPA of Alloys/Non Alloys Steel Billets/Round, Coil, Wire Rod, TMT Bars and Flats by Installing 4 induction furnaces (Two no. Ifs of capacity 15 TPH each & Two no. IFs of capacity 30 TPH each), LRF 20 TPH, continuous casting machine and a Rolling Mill of 60 TPH capacity at Village Barmalipur, Tehsil Payal, District Ludhiana, Punjab by M/s Antarctic Industries Ltd. (Proposal No. SIA/PB/IND/60763/2021).

The project proponent has applied for issuance of TORs to M/s Antarctic Industries Ltd. for manufacturing of 4,72,500 TPA of Alloys/Non Alloys Steel Billets/Round, Coil, Wire Rod, TMT Bars and Flats by Installing 4 induction furnaces (Two no. Ifs of capacity 15 TPH each & Two no. Ifs of capacity 30 TPH each), LRF 20 TPH, continuous casting machine and a Rolling Mill of 60 TPH capacity at Village Barmalipur, Tehsil Payal, District Ludhiana, Punjab. Project is covered under Activity 3(a) & Category 'B1' as per EIA notification-2006.

1. The project proponent submitted the Form I, Pre-feasibility report and other additional documents on online portal. He has also deposited the requisite fee through NEFT NO. SPUNBH21063975830 dated 04.03.2021.
2. The project proponent during the presentation to the committee be ask to present the applicability of General Condition, suitability of site, land details etc.
3. The Environmental Engineer PPCB, RO1 Ludhiana was requested vide e-mail dated 04.03.2021 and 09.03.2021 to send the latest construction status report and the said report is awaited.

1.0 Deliberations during 197th meeting of SEAC held on 15.03.2021

The meeting was attended by the following:

3. Sh. Sanjay Jain, Director.
4. Mr. Sital Singh, EIA coordinator, M/s CPTL Laboratories, Mohali, Environmental Consultant of the Project Proponent.

SEAC was apprised that the Punjab Pollution Control Board, Zonal Office 1, Ludhiana vide letter no. 934 dated 15.03.2021 has sent the latest construction status report and the contents of the report are given as under:

1. *The site of the Project is Located at Village Bamalipur, Teh. Payal, Ludhiana at co-ordinates 30.7674926, 76.0714405. No construction of the proposed project has been started. No proposed machinery has been installed.*
2. *Within the Radius of 500m of site there is no Residential area. There is one school namely anand isher public high school, Barmalipur, Ludhiana which is within 500m radius of project site. There is one industrial unit namely M/s Sportking Processers (Dye House) Vill Barmalipur, Doraha, Ludhiana within 500 meter radius of this unit.*
3. *The industry has not obtained NOC/CTO from the Board.*
4. *The site is located more than 10 Km from the Municipal Corporation, Ludhiana limit as such the site is located outside the boundary of critical polluted area (Ludhiana). However, no certificate to this effect has been submitted by the industry from revenue authorities.*
5. *The industry has not submitted any CLU/Site or Area classification certificate from any designated authority.*

In light of the above report, SEAC allowed the Project Proponent to present the case and the Environmental Consultant of the Project Proponent presented the case as under:

Sr. No.	Description	Details
1.	In case of expansion projects, whether granted EC earlier, if Yes, then provide its details	It is a new project.
2.	Nature of project (Fresh EC/EC for Expansion/New)	Fresh EC
3.	a) Category b) Activity (As per schedule appended to EIA Notification, 2006 as amended time to time.)	(a) B1 (b) Metallurgical Industries (ferrous & non ferrous) (8), Schedule 3(a) as per EIA notification-2006.
4.	Whether project falls within 5km from the boundary of critically polluted area (Yes/No)	No
5.	Details of Consent to operate under (Air/Water Act) of existing project	Not obtained, as it is a new project.
6.	Existing production Capacity (TPA)	Nil, as it is a new project.
7.	Details TOR processing fee submitted (25% of the total project cost)	An amount of Rs. 97,500/- is submitted through NEFT- NO: SPUNBH21063975830 on dated 4 th March, 2021.

8.	Whether the project is located near to PLPA area or falls in the PLPA area	The project site is neither located near to PLPA area nor fall in PLPA area.																	
9.	Classification/Land use pattern as per Master Plan	The site falls in Industry zone as per master plan of Ludhiana.																	
10.	Details of CLU certificate	The site falls in Industry zone as per master plan of Ludhiana.																	
11.	Details of block as per CGWA guideline (Notified/ Non-Notified area) in which project site is located	The project site falls in Doraha Block which is Non-notified area as per CGWA guidelines.																	
12.	Project Area Details:																		
	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Details</th> <th>Land</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Plot Area (in sqm)</td> <td>72843.4</td> </tr> <tr> <td>2.</td> <td>Current Price of land (Rs. in Crores)</td> <td>4.69</td> </tr> </tbody> </table>	S. No.	Details	Land	1.	Plot Area (in sqm)	72843.4	2.	Current Price of land (Rs. in Crores)	4.69									
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2.	Current Price of land (Rs. in Crores)	4.69																	
13.	Total project cost breakup including cost of land, Building, Infrastructure, APCD and Plant & Machinery duly certified by Chartered Engineer/ Approved valuer or Chartered Accountant in the following format:																		
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	*Project proponent shall assess the cost of APCD/ESP/ZLD/ETP/STP/Continuous online monitoring system etc from reputed supplier and shall include it in the Plant and machinery/APCD cost as per Quotation and Environment Management Plan. Accordingly, total project cost should be included in the EIA report.																		
14.	Raw Material requirement as per following format:																		
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15.	Production Capacity as per following format :		
	S. No.	Product name	Total Production (TPD)
	1.	Steel Billets/Structural Steel (Round, Coil, Wire Rod, TMT Bars, Square & Flats)	1350
16.	Details of major productive machinery/plant		
	S. No.	Particulars	Machinery/plant
	1.	Induction Furnace	2X15TPH& 2X30TPH
	2.	Concast	01 No.
	3.	Rolling mill	01 No.
17.	Status of Proposed ToRs	Submitted.	

SEAC raised following observations to the project proponent:

Sr. No.	Observations	Reply
1.	The Project Proponent shall submit documentary evidence regarding distance of the site from the municipal limits of Ludhiana at the time of submission of EIA report.	Agreed by the Project Proponent.
2.	Project Proponent shall submit CLU/Area classification certificate from the concerned authority at the time of submission of EIA report.	Agreed by the Project Proponent.
3.	The Project Proponent shall obtain permission from PWRDA for extraction of ground water.	Agreed by the Project Proponent.

After detailed deliberations, it was decided to categorize the project under Activity 3(a); B-1 with public consultation, as required for the project. The baseline study shall be carried out by Environmental Consultant for one-month additional study with effect from

date of application of ToRs (except monsoon season), which shall include at least five days of traffic study. The Committee approved the following Terms of Reference for manufacturing of 4,72,500 TPA of Alloys/Non Alloys Steel Billets/Round, Coil, Wire Rod, TMT Bars and Flats by Installing 4 induction furnaces (2 of capacity 15 TPH each & 2 of capacity 30 TPH each), LRF 20 TPH, continuous casting machine and a Rolling Mill of 60 TPH capacity at Village Barmalipur, Tehsil Payal, District Ludhiana, Punjab by M/s Antarctic Industries Ltd. for preparing Environmental Impact Assessment (EIA) report for the proposed project and recommended to SEIAA to issue the following TORs:

A. STANDARD TERMS OF REFERENCE

14) Executive Summary

Report in about 8-10 pages incorporating the following:

- (i) Project name and location (Village, Distt., 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 its acquisition, nearby (in 2-3 km.) water body, population, within 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 groundwater 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/CER plan with proposed expenditure.
- (xiv) Occupational Health Measures
- (xv) Post Project monitoring plan
- (xvi) Synopsis of the project (as available on web site i.e. www.pbdecc.gov.in)

15) Introduction

- (i) Details of the EIA Consultant including NABET accreditation
- (ii) Information about the project proponent
- (iii) Importance and benefits of the project

16) 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 (breakup for induction and rolling mill), power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract).
- (viii) Process description along with major equipment and machineries, process flow sheet (quantitative) from raw material to products to be provided
- (ix) Hazard identification and details of proposed safety systems.
- (x) In case of Expansion/modernization proposals:
 - a) 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.
 - b) 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.

17) 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 top 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) Details w.r.t. option analysis for selection of site.
- (iv) Co-ordinates (lat-long) of all four corners of the site.
- (v) Google map-Earth downloaded of the project site
- (vi) Layout maps indicating existing unit as well as proposed unit indicating storage area of raw material, finished products, greenbelt area with marking of tree, Location of STP/ETP, Solid waste storage area, Parking space, Firefighting equipment layout, First aid room, Location of Tube wells, DG Sets & Transformers and any other utilities
- (vii) If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
- (viii) Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
- (ix) 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)
- (x) 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.
- (xi) Geological features and Geo-hydrological status of the study area shall be included.
- (xii) 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)
- (xiii) Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- (xiv) R&R details in respect of land in line with state Government policy

18) 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.

19) 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 PM 10, PM2.5, SO₂, NO_x, 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 (100m upstream and downstream) and other surface drains at eight locations as per CPCB/MoEF& CC guidelines.
- (v) Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF& CC.
- (vi) Groundwater monitoring at minimum at 8 locations shall be included.
- (vii) Noise levels monitoring at 8 locations within the study area.
- (viii) Soil Characteristic as per CPCB guidelines.

- (ix) Traffic feasibility / serviceability study for at least 5 days based on Indian Standard Codes. Further it shall also include the details of cross section of the road on which industry is located, vehicles movement w.r.t. the industry, traffic load of other vehicles on the road incorporating the haulage time for the vehicles for loading/unloading within the premises and parking requirement to avoid the traffic congestions on the link and adjoining roads. Traffic study shall be conducted considering the traffic of the industries located in the vicinity.
- (x) 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.
- (xi) Socio-economic status of the study area.

20) 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.
- (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 in 33 % area with not less than 1,500 trees per hectares giving details of species, width of plantation, planting schedule, post plantation maintenance plan for 3 years shall be included. The green belt shall be around the 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 alternative sites shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the groundwater and also to use for the various activities to conserve freshwater 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 the District Disaster Management Plan.

21) Occupational health

- (i) Details of existing Occupational & Safety Hazards. What are the exposure levels of above-mentioned hazards and whether they are within the Permissible Exposure Level (PEL)? If these are not within PEL, what measures the company has adopted to keep them within PEL so that the 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 above-mentioned parameters as per age, sex, duration of exposure and department wise.
- (iii) Annual report of the 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.

22) 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 processes/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 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 shall be detailed in the EIA report

23) 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 the operation phase.

24) Enterprise Social Commitment (ESC)

To address the Public Hearing issues, 2.5% of the total project cost of (Rs.____crores), amounting to Rs.____crores, shall be earmarked by the project proponent, towards Enterprise Social Commitment (ESC). Distinct ESC projects shall be carved out based on the local public hearing issues. Project estimate shall be prepared based on PWD schedule of rates for each distinct Item and schedule for time-bound action plan shall be prepared. These ESC projects as indicated by the project proponent shall be implemented along with the main project. Implementation of such program shall be ensured by constituting a Committee comprising of the project proponent, representatives of village Panchayat & District Administration. Action taken report in this regard shall be submitted to the Ministry's Regional Office. No free distribution/donations and or free camps shall be included in the above ESC budget

25) 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.

26) A tabular chart with index for points wise compliance of above TORs.

B. STANDARDISED SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR INDUCTION/ ARC FURNACES/CUPOLA FURNACES 5TPH OR MORE

- (i) Details of proposed layout clearly demarcating existing & proposed features of the project within the plant.
- (ii) Total no. of furnaces & details including capacity of each furnace.
- (iii) Detail of the mechanical shredder to reduce the size of the raw material.
- (iv) Complete process flow diagram describing each unit, its processes, and operations, along with material and energy inputs and outputs (material and energy balance).
- (v) Details on the design and manufacturing process for all the units.
- (vi) 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.
- (vii) Details on the requirement of raw materials, its source, and storage at the plant.
- (viii) Details on the requirement of energy and water along with its source and authorization from the concerned department. Location of water intake and outfall points (with coordinates).
- (ix) Details on toxic metal content in the waste material and its composition and end-use (particularly of slag).
- (x) 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.

C. ADDITIONAL SPECIFIC TORS DECIDED DURING MEETING OF SEAC

- 27. Public consultation is required for the projects as not located in notified industrial parks/estates.
- 28. Submit proof of ownership of land (existing owner) such as copy of latest Jamabandi (not more than one month old) and credible document showing status of land acquisition w.r.t. project site as prescribed in OM dated 07.10.2014 issued by MoEF).
- 29. Submit dully filled prescribed field data sheets and analysis reports along with exact location of sampling / monitoring point marked on the layout map. Also submit the status of approvals of Laboratories.
- 30. Submit cost of the project duly certified by Chartered Engineer/ Approved valuer / Chartered Accountant. In the absence of above, the project proponent may submit self-certified detail of cost of the project mentioning the cost of Land, building, infrastructure and plant & machinery

31. Certificate from the concerned authority w.r.t the location of protected areas as notified under the Wildlife Protection Act, 1972 within 5 km radius from the boundary of the project site.
32. Certificate from the Department of Town & Country Planning or concerned authorities to support the claim made by project proponent that the project site is located in the industrial zone as per the provisions of Master Plan of Town/City in the jurisdiction of which the project site is located otherwise project proponent shall submit the Change of land use of the project site for total land area 18 acres.
33. Compliance of the siting criteria, standard operating practices, code of practice, and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such type of units.
34. Necessary permissions from the Central Groundwater Authority (CGWA)/ State Groundwater Authority (SGWA)/concerned authority for the abstraction of groundwater for the existing requirements as well as for the expanded unit. In case of not allowing such permission by the concerned authority for the abstraction of additional groundwater for the expanded project, the project proponent shall propose alternative arrangements to meet out the additional water requirements. It shall be ensured that: -
 - a) In the projects where groundwater is proposed as a water source, the project proponent shall apply to the Central Groundwater Authority (CGWA)/ State Groundwater Authority (SGWA), as the case may be, for obtaining No Objection Certificate (NOC) if applicable.
 - b) Approval /permission of the CGWA/SGWA shall be obtained before drawing groundwater for the project activities.
 - c) In the absence of approval, submit a copy of acknowledgment along with a set of application filed to CGWA /Competent Authority for obtaining permission for the abstraction of groundwater
35. Minimize the water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.
36. STP for treatment of wastewater & re-utilization of the treated water for core/non-core activities so as to achieve the Zero Liquid Discharge Condition as per the III (iv) of OM dated 09/08/2018 issued by the MoEF&CC for such units.
37. Reuse of cooling tower blow down, simultaneously ensuring the standards prescribed for such purge waters. If required, necessary arrangements shall be made to keep this waste stream within the parameters required for reuse.
38. In case of any acid pickling activity, the spent acid/effluents generated from such activities shall be utilized through authorized re-processors for

converting the same into useful by-products like FeSO₄ etc. An agreement to this effect shall be made with the authorized agencies.

39. Adequate area to be reserved and marked on the layout plan for the green belt as per the conditions laid down by the MoEF&CC as per the Standard EC Conditions prescribed for Induction/ Electric Arc Furnace & Rolling Mills circulated vide OM dated 09/08/2018.
40. Detailed study report along with calculation for reserving land for loading or unloading of raw material, products, slag, hazardous waste as well as for storage of these materials and the area to be reserved for parking incorporating the time required for loading and unloading of vehicles for respective activities and minimum/maximum period for which storage of the above material is required in the premises. The areas for the respective activities to be marked on the layout plan.
41. Action plan for the compliance of standard operating procedures and up-gradation of suction and treatment arrangement for the secondary emissions as prescribed by the State Pollution Control Board or by CPCB/MoEF&CC.
42. Compliance of standard operating procedures and up-gradation of suction/treatment systems for the control of secondary emissions within the time frame prescribed by the State Pollution Control Board. Similar action is to be implemented in the proposed expansion project.
43. Whole of the vehicle movement area as well as the approach road to the gate /weighing bridge shall be paved with pucca/metalled / cement concrete road to control the dust emissions expected from the vehicle movement.
44. The vehicles to be used for loading/unloading purposes shall not be parked along the roadside so as to avoid the traffic congestion and dedicated parking place to be provided for the same.
45. Adopt green technologies to conserve the water and energy including shearing/cutting / bundling machines. Also, to provide abrasive resistant fire bricks in the crucibles to reduce the periodic maintenance & disposal of discarded fire bricks.
46. Use of natural gas (if available) as substitute fuel wherever possible in the existing industry/ for the expansion project.
47. Delineate the concrete proposal regarding activities to be undertaken under Corporate Environmental Responsibility indicating the followings: -
 - i) various activities to be undertaken as per the provision of OM dated 01.05.2018
 - ii) proportionate provisions of funds,
 - iii) the period in which CER activities is to be implemented
 - iv) the person(s) responsible for the implementation.

48. Submit compliance w.r.t. condition no.II [(i) & (iii)] subtitled as "Air Quality Monitoring & Preservation" regarding continuous emission monitoring system and continuous ambient air quality monitoring as prescribed in the Standard EC Conditions for Induction/ Electric Arc Furnace & Rolling Mills issued by the MoEF&CC, New Delhi vide OM dated 09/08/2018.
49. Examine and submit the proposal for: -
- Recovery of iron from slag before disposing of it.
 - Identify the areas for utilization of slag in a scientific manner and explore its usage in cement/construction industry/manufacturing of pavers & tiles/road laying etc.
 - Recovery of precious metals like Zinc, lead and iron etc. from the APCD dust (Hazardous waste) through authorized re-processor.
50. Air Pollution Control Arrangement details shall be provided as below:

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

51. Submit compliance regarding the installation of Pulse jet bag filter with offline cleaning technology as APCD with the proposed induction furnace.
52. List the species with heavy foliage, broad leaves and wide canopy cover. The landscape planning should include plantation of native species. Water intensive and/or invasive species should not be used for landscaping

The following general points shall be noted:

- The EIA document shall be printed on both sides, as far as possible.
- All documents shall be properly indexed, page numbered.
- Period/date of data collection shall be clearly indicated.
- The letter/application for environmental clearance shall quote the MOEF / SEIAA file No. and also attach a copy of the letter.
- The copy of the letter received from the Ministry / SEIAA shall be also attached as an annexure to the final EIA-EMP Report.

- (vi) The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report.
- (vii) 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.
- (viii) 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.

The Terms of Reference (ToR) prescribed by the State Expert Appraisal Committee (SEAC), Punjab should be considered for the 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 IIIA 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 the 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.

If any part of the data/information submitted by the project proponent is found to be false or misleading at any stage, then SEIAA & SEAC will not be responsible for the expenditure incurred on the project due to the issuance of this ToR or subsequent work carried out by the project proponent for conducting EIA study or for any other activity related to the project.

The 'Terms of Reference' (TORs) prescribed will be valid for a period of three years from its issuance. The final EIA report shall be submitted to the SEIAA, Punjab for obtaining environmental clearance.

Item No. 197.10 Application for issuance of TORs for expansion in existing steel manufacturing unit having existing capacity 26,950 TPA of steel Billets/Ingots/Hand tool/Flats/Industrial rounds to 1,15,500 TPA of Steel Billets/Ingots/Hand tool/Flats/Industrial rounds by addition of induction Furnaces at Village Dugri, Tehsil Payal, District Ludhiana, Punjab by M/s Ajar Amar Steel Concast (Proposal No. SIA/PB/IND/59654/2021).

The project proponent has applied for issuance of TORs to M/s Ajar Amar Steel Concast for expansion in existing steel manufacturing unit having existing capacity 26,950 TPA of steel Billets/Ingots/Hand tool/Flats/Industrial rounds to 1,15,500 TPA of Steel Billets/Ingots/Hand tool/Flats/Industrial rounds by addition of induction Furnaces at Village Dugri, Tehsil Payal, District Ludhiana, Punjab. Project is covered under Activity 3(a) & Category 'B1' as per EIA notification-2006.

1. The project proponent submitted the Form I, Pre-feasibility report and other additional documents on online portal. He has also deposited the requisite fee through NEFT dated 05.03.2021.
2. The project proponent during the presentation to the committee be ask to present the applicability of General Condition, suitability of site, land details etc.
3. The Environmental Engineer PPCB, RO1 Ludhiana was requested vide e-mail dated 04.03.2021 and 09.03.2021 to send the latest construction status report and the said report is awaited.

1.0 Deliberations during 197th meeting of SEAC held on 15.03.2021

The meeting was attended by the following:

1. Mr. Sital Singh, EIA coordinator, M/s CPTL Laboratories, Mohali, Environmental Consultant of the Project Proponent.

The Environmental Consultant of the Project Proponent submitted that the Project Proponent could not appear due to COVID and has authorized the Environmental Consultant to attend the meeting.

SEAC was apprised that the Punjab Pollution Control Board, Zonal Office 1, Ludhiana vide letter no. 931 dated 15.03.2021 has sent the latest construction status report and the contents of the report are given as under:

1. *The site of the Project is Located at Village Dugri, Teh. Payal, Ludhiana at co-ordinates 30.7965132, 75.9552673. The construction of the newly proposed project was going on at the time of visit as foundation has been constructed. No proposed machinery has been installed.*
2. *Within the Radius of 500m of site there is no Residential area. There is one school namely Mount litera ZEE School, Teh. Payal Ludhiana within 500m radius of project site. There are about 5-6 industrial units and one flip kart godown within 500 meter radius of this unit.*
3. *The industry has obtained Consent to Operate under Air Act, 1981 vide no. CTOA/Fresh/LDH1/2020/12187821 dated 30.04.2020 valid upto 30.09.2025 & Water Act, 1974 vide no. CTOW/Fresh/LDH1/2020/12187783dated 30.04.2020 valid upto 30.09.2025 for induction furnace of capacity 7 TPH and manufacturing of Steel ingots @77MTD.*
4. *As per the SDM, Payal letter no. 144 dated 08.04.19 the site is located more than 15 Km from the Municipal Corporation, Ludhiana as such the site is located outside the boundary of critical polluted area (Ludhiana)*
5. *The industry has submitted CLU vide STP letter no. 343 dated 06.02.2018 as per which site of the industry falls under Industrial Land Use Zone as per Master Plan Ludhiana, (2007-2031) and also allowing industrial purpose use to steel billet unit vide STP letter no. 4640 dated 30.10.2018.*

SEAC observed that as per the report of PPCB, construction work related to the newly proposed project was going on at the time of visit and the foundation has been constructed. However, no proposed machinery was installed at the site. As such, the case would not be considered as a violation case as no new machinery has been installed at the site by the Project Proponent and only ground work has been carried out till date.

SEAC allowed the Project Proponent to present the case and the Environmental Consultant of the Project Proponent presented the case as under:

Sr. No.	Description	Details
1.	In case of expansion projects, whether granted EC earlier, if Yes, then provide its details	It is an expansion project. But due to existing capacity of 26,950 TPA, earlier EC was not required.
2.	Nature of project (Fresh EC/EC for Expansion/New)	Fresh EC

3.	a) Category b) Activity (As per schedule appended to EIA Notification, 2006 as amended time to time.)	(a) B1 (b) Metallurgical Industries (ferrous & non ferrous) (8), Schedule 3(a) as per EIA notification-2006.			
4.	Whether project falls within 5km from the boundary of critically polluted area (Yes/No)	The project sites is located at distance of 6.0 km from MC Limit Ludhiana.			
5.	Details of Consent to operate under (Air/Water Act) of existing project	Consent to operate under (Air/Water Act) has been obtained from PPCB.			
6.	Existing production Capacity (TPA)	Steel Billet/Ingots/Hand tool/Flats/Industrial Rounds- 26,950 TPA			
7.	Details TOR processing fee submitted (25% of the total project cost)	An amount of Rs. 58,629/- is submitted through online mode vide transaction ID-5052326346 on dated 5 th March., 2021.			
8.	Whether the project is located near to PLPA area or fall in the PLPA area	The project site is neither located near to PLPA area nor fall in PLPA area.			
9.	Classification/Land use pattern as per Master Plan	The site falls in Medium & heavy Industry zone as per master plan (2007-21)			
10	Details of CLU certificate	CLU obtained vide memo no.- 343 STP(L)/TW12-A dated 06.02.2018 for 2.545 acres.			
11	Details of block as per CGWA guideline (Notified/ Non-Notified area) in which project site is located	The project site falls in Samrala Block which is Non-notified area as per CGWA guidelines.			
12	Project Area Details:				
	S. No.	Details	Existing Land	Proposed Additional Land	Total land after Expansion
	1.	Plot Area (in sqm)	16262	---	16262
	2.	Current Price of land (Rs. in Crores)	Lease land		

13	Total project cost breakup including cost of land, Building, Infrastructure, APCD and Plant & Machinery duly certified by Chartered Engineer/ Approved valuer or Chartered Accountant in the following format:				
	S. No.	Description	Existing (Rs. in Crores)	Proposed (Rs. in Crores)	Total Cost (Rs. in Crores)
	1	Cost of Land at current price level & area in sqm	Lease land		
	2	Building	5.50	0.4	5.90
	3	* Plant & Machinery	8.7014	6.50	15.2014
	5	Others	2.25	1.0	2.35
	Total		16.4514	8.0	23.4514
	*Project proponent shall assess the cost of APCD/ESP/ZLD/ETP/STP/Continuous online monitoring system etc from reputed supplier and shall include it in the Plant and machinery/APCD cost as per Quotation and Environment Management Plan. Accordingly, total project cost should be included in the EIA report.				
14	Raw Material requirement as per following format:				
	S.No.	Product name	Existing (TPD)	Proposed (TPD)	After Expansion (TPD)
	1.	MS Scrap, CI, Sponge Iron, Ferro alloys	83	280	355
15	Production Capacity as per following format :				
	S.No.	Product name	Existing (TPD)	Proposed (TPD)	After Expansion (TPD)
	1.	Steel Billets/Ingots/Hand tool flats/Industrial round	77	253	330

16	Details of major productive machinery/plant				
	S.No.	Particulars	Existing	Proposed	After Expansion
	1.	Induction Furnace	1X 7TPH&	Existing 7TPH will be upgraded to 10TPH, 1X20 TPH	1X10 TPH 1X20 TPH
	2.	Rolling Mill	10 TPH	Upgrade to 15 TPH	1 No. (15TPH)
3.	CCM	Nil	01 No.	01 No.	
17	Status of Proposed ToRs	Standard TORs submitted.			

SEAC raised following observations to the project proponent:

Sr. No.	Observations	Reply
1.	The CLU of the Project Proponent is of 12316.54 Sq.yards acres but the total land of the project is 19450 Sq.yards.	The CLU of the total land will be obtained and submitted at the time of submission of EIA report.
2.	The Project Proponent shall obtain permission from PWRDA for abstraction of ground water.	Agreed by the Project Proponent.

The Environmental Consultant of the Project Proponent submitted that another industry namely M/s J.N. Tayal Steels Pvt. Ltd. Village- Bhagwanpura, Dehlon Road, Tehsil- Ludhiana East, District- Ludhiana, falls at a distance of 1 Km of the industry and requested to allow the Project Proponent to utilize the same baseline study for preparation of the EIA report for the project.

SEAC allowed the Project Proponent to utilize the baseline study carried out for the industry namely M/s J.N. Tayal Steels Pvt. Ltd. Village- Bhagwanpura, Dehlon Road, Tehsil- Ludhiana East, District- Ludhiana for this project also.

After detailed deliberations, it was decided to categorize the project under Activity 3(a); B-1 with public consultation as required for the project. The baseline study of M/s J.N. Tayal Steels Pvt. Ltd. Village- Bhagwanpura, Dehlon Road, Tehsil- Ludhiana East, District- Ludhiana shall be utilized for preparation of EIA report. The Committee approved the following Terms of Reference for expansion in existing steel manufacturing unit having existing capacity 26,950 TPA of steel Billets/Ingots/Hand tool/Flats/Industrial rounds to 1,15,500 TPA of Steel Billets/Ingots/Hand tool/Flats/Industrial rounds by addition of induction Furnaces at Village Dugri, Tehsil Payal, District Ludhiana, Punjab by M/s Ajar Amar Steel Concast for preparing Environmental Impact Assessment (EIA) report for the proposed project and recommended to SEIAA to issue the TORs given as under:-

A. STANDARD TERMS OF REFERENCE

27) Executive Summary

Report in about 8-10 pages incorporating the following:

- (i) Project name and location (Village, Distt., 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, within 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 groundwater 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/CER plan with proposed expenditure.
- (xiv) Occupational Health Measures
- (xv) Post Project monitoring plan
- (xvi) Synopsis of the project (as available on web site i.e. www.pbdecc.gov.in)

28) Introduction

- (i) Details of the EIA Consultant including NABET accreditation
- (ii) Information about the project proponent
- (iii) Importance and benefits of the project

29) 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 (breakup for induction and rolling mill), power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract).
- (viii) Process description along with major equipment and machineries, process flow sheet (quantitative) from raw material to products to be provided
- (ix) Hazard identification and details of proposed safety systems.
- (x) In case of Expansion/modernization proposals:
 - a) 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.

- b) 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.

30) 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 top 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) Details w.r.t. option analysis for selection of site.
- (iv) Co-ordinates (lat-long) of all four corners of the site.
- (v) Google map-Earth downloaded of the project site
- (vi) Layout maps indicating existing unit as well as proposed unit indicating storage area of raw material, finished products, greenbelt area with marking of tree, Location of STP/ETP, Solid waste storage area, Parking space, Firefighting equipment layout, First aid room, Location of Tube wells, DG Sets & Transformers and any other utilities
- (vii) If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
- (viii) Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
- (ix) 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)
- (x) 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.
- (xi) Geological features and Geo-hydrological status of the study area shall be included.
- (xii) 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)

- (xiii) Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- (xiv) R&R details in respect of land in line with state Government policy

31) 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.

32) 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 PM 10, PM2.5, SO₂, NO_x, 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 (100m upstream and downstream) and other surface drains at eight locations as per CPCB/MoEF& CC guidelines.

- (v) Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF& CC.
- (vi) Groundwater monitoring at minimum at 8 locations shall be included.
- (vii) Noise levels monitoring at 8 locations within the study area.
- (viii) Soil Characteristic as per CPCB guidelines.
- (ix) Traffic feasibility / serviceability study for at least 5 days based on Indian Standard Codes. Further it shall also include the details of cross section of the road on which industry is located, vehicles movement w.r.t. the industry, traffic load of other vehicles on the road incorporating the haulage time for the vehicles for loading/unloading within the premises and parking requirement to avoid the traffic congestions on the link and adjoining roads. Traffic study shall be conducted considering the traffic of the industries located in the vicinity.
- (x) 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.
- (xi) Socio-economic status of the study area.

33) 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.

- (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 in 33 % area with not less than 1,500 trees per hectares giving details of species, width of plantation, planting schedule, post plantation maintenance plan for 3 years shall be included. The green belt shall be around the 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 alternative sites shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the groundwater and also to use for the various activities to conserve freshwater 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 the District Disaster Management Plan.
- 34) Occupational health
- (i) Details of existing Occupational & Safety Hazards. What are the exposure levels of above-mentioned hazards and whether they are within the Permissible Exposure Level (PEL)? If these are not within PEL, what measures the company has adopted to keep them within PEL so that the 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 above-mentioned parameters as per age, sex, duration of exposure and department wise.

- (v) Annual report of the health status of workers with special reference to Occupational Health and Safety.
- (vi) Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.

35) 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 processes/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 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 shall be detailed in the EIA report

36) 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 the operation phase.

37) Enterprise Social Commitment (ESC)

To address the Public Hearing issues, 2.5% of the total project cost of (Rs.____crores), amounting to Rs.____crores, shall be earmarked by the project proponent, towards Enterprise Social Commitment (ESC). Distinct ESC projects shall be carved out based on the local public hearing issues. Project estimate shall be prepared based on PWD schedule of rates for each distinct Item and schedule for time-bound action plan shall be prepared. These ESC projects as indicated by the project proponent shall be implemented along with the main project. Implementation of such program shall be ensured by constituting a Committee comprising of the project proponent, representatives of village Panchayat & District Administration. Action taken report in this regard shall be submitted to the Ministry's Regional Office. No free distribution/donations and or free camps shall be included in the above ESC budget

38) 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.

39) A tabular chart with index for points wise compliance of above TORs.

B. STANDARDISED SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR INDUCTION/ ARC FURNACES/CUPOLA FURNACES 5TPH OR MORE

- (i) Details of proposed layout clearly demarcating existing & proposed features of the project within the plant.
- (ii) Total no. of furnaces & details including capacity of each furnace.
- (iii) Detail of the mechanical shredder to reduce the size of the raw material.
- (iv) Complete process flow diagram describing each unit, its processes, and operations, along with material and energy inputs and outputs (material and energy balance).
- (v) Details on the design and manufacturing process for all the units.
- (vi) 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.
- (vii) Details on the requirement of raw materials, its source, and storage at the plant.
- (viii) Details on the requirement of energy and water along with its source and authorization from the concerned department. Location of water intake and outfall points (with coordinates).
- (ix) Details on toxic metal content in the waste material and its composition and end-use (particularly of slag).
- (x) 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.

C. ADDITIONAL SPECIFIC TORS DECIDED DURING MEETING OF SEAC

- (i) Public consultation is required for the projects as not located in notified industrial parks/estates.
- (ii) Submit proof of ownership of land (existing owner) such as copy of latest Jamabandi (not more than one month old) and credible document showing status of land acquisition w.r.t. project site as prescribed in OM dated 07.10.2014 issued by MoEF).
- (iii) Submit dully filled prescribed field data sheets and analysis reports along with exact location of sampling / monitoring point marked on the layout map. Also submit the status of approvals of Laboratories.

- (iv) Submit cost of the project duly certified by Chartered Engineer/ Approved valuer / Chartered Accountant. In the absence of above, the project proponent may submit self-certified detail of cost of the project mentioning the cost of Land, building, infrastructure and plant & machinery
- (v) Certificate from the concerned authority w.r.t the location of protected areas as notified under the Wildlife Protection Act, 1972 within 5 km radius from the boundary of the project site.
- (vi) Certificate from the Department of Town & Country Planning or concerned authorities to support the claim made by project proponent that the project site (19450 Sq. yard) is located in the industrial zone as per the provisions of Master Plan of Town/City in the jurisdiction of which the project site is located otherwise project proponent shall submit the Change of land use of the project site for total land area 19450 Sq. yard.
- (vii) Compliance of the siting criteria, standard operating practices, code of practice, and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such type of units.
- (viii) Necessary permissions from the Central Groundwater Authority (CGWA)/ State Groundwater Authority (SGWA)/concerned authority for the abstraction of groundwater for the existing requirements as well as for the expanded unit. In case of not allowing such permission by the concerned authority for the abstraction of additional groundwater for the expanded project, the project proponent shall propose alternative arrangements to meet out the additional water requirements. It shall be ensured that: -
 - a) In the projects where groundwater is proposed as a water source, the project proponent shall apply to the Central Groundwater Authority (CGWA)/ State Groundwater Authority (SGWA), as the case may be, for obtaining No Objection Certificate (NOC) if applicable.
 - b) Approval /permission of the CGWA/SGWA shall be obtained before drawing groundwater for the project activities.
 - c) In the absence of approval, submit a copy of acknowledgment along with a set of application filed to CGWA /Competent Authority for obtaining permission for the abstraction of groundwater
- (ix) Minimize the water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.
- (x) STP for treatment of wastewater & re-utilization of the treated water for core/non-core activities so as to achieve the Zero Liquid Discharge Condition as per the III (iv) of OM dated 09/08/2018 issued by the MoEF&CC for such units.

- (xi) Reuse of cooling tower blow down, simultaneously ensuring the standards prescribed for such purge waters. If required, necessary arrangements shall be made to keep this waste stream within the parameters required for reuse.
- (xii) In case of any acid pickling activity, the spent acid/effluents generated from such activities shall be utilized through authorized re-processors for converting the same into useful by-products like FeSO₄ etc. An agreement to this effect shall be made with the authorized agencies.
- (xiii) Adequate area to be reserved and marked on the layout plan for the green belt as per the conditions laid down by the MoEF&CC as per the Standard EC Conditions prescribed for Induction/ Electric Arc Furnace & Rolling Mills circulated vide OM dated 09/08/2018.
- (xiv) Detailed study report along with calculation for reserving land for loading or unloading of raw material, products, slag, hazardous waste as well as for storage of these materials and the area to be reserved for parking incorporating the time required for loading and unloading of vehicles for respective activities and minimum/maximum period for which storage of the above material is required in the premises. The areas for the respective activities to be marked on the layout plan.
- (xv) Action plan for the compliance of standard operating procedures and up-gradation of suction and treatment arrangement for the secondary emissions as prescribed by the State Pollution Control Board or by CPCB/MoEF&CC.
- (xvi) Compliance of standard operating procedures and up-gradation of suction/treatment systems for the control of secondary emissions within the time frame prescribed by the State Pollution Control Board. Similar action is to be implemented in the proposed expansion project.
- (xvii) Whole of the vehicle movement area as well as the approach road to the gate /weighing bridge shall be paved with pucca/metalled / cement concrete road to control the dust emissions expected from the vehicle movement.
- (xviii) The vehicles to be used for loading/unloading purposes shall not be parked along the roadside so as to avoid the traffic congestion and dedicated parking place to be provided for the same.
- (xix) Adopt green technologies to conserve the water and energy including shearing/cutting / bundling machines. Also, to provide abrasive resistant fire bricks in the crucibles to reduce the periodic maintenance & disposal of discarded fire bricks.
- (xx) Use of natural gas (if available) as substitute fuel wherever possible in the existing industry/ for the expansion project.
- (xxi) Delineate the concrete proposal regarding activities to be undertaken under Corporate Environmental Responsibility indicating the followings: -

- (a) various activities to be undertaken as per the provision of OM dated 01.05.2018
 - (b) proportionate provisions of funds,
 - (c) the period in which CER activities is to be implemented
 - (d) the person(s) responsible for the implementation.
- (xxii) Submit compliance w.r.t. condition no.II [(i) & (iii)] subtitled as "Air Quality Monitoring & Preservation" regarding continuous emission monitoring system and continuous ambient air quality monitoring as prescribed in the Standard EC Conditions for Induction/ Electric Arc Furnace & Rolling Mills issued by the MoEF&CC, New Delhi vide OM dated 09/08/2018.
- (xxiii) Examine and submit the proposal for: -
- d) Recovery of iron from slag before disposing of it.
 - e) Identify the areas for utilization of slag in a scientific manner and explore its usage in cement/construction industry/manufacturing of pavers & tiles/road laying etc.
 - f) Recovery of precious metals like Zinc, lead and iron etc. from the APCD dust (Hazardous waste) through authorized re-processor.
- (xxiv) Air Pollution Control Arrangement details shall be provided as below:

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

- (xxv) Submit compliance regarding the installation of Pulse jet bag filter with offline cleaning technology as APCD with the proposed induction furnace.
- (xxvi) List the species with heavy foliage, broad leaves and wide canopy cover. The landscape planning should include plantation of native species. Water intensive and/or invasive species should not be used for landscaping

The following general points shall be noted:

- (i) The EIA document shall be printed on both sides, as for as possible.
- (ii) All documents shall be properly indexed, page numbered.
- (iii) Period/date of data collection shall be clearly indicated.

- (iv) The letter/application for environmental clearance shall quote the MOEF / SEIAA file No. and also attach a copy of the letter.
- (v) The copy of the letter received from the Ministry / SEIAA shall be also attached as an annexure to the final EIA-EMP Report.
- (vi) The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report.
- (vii) 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.
- (viii) 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.

The Terms of Reference (ToR) prescribed by the State Expert Appraisal Committee (SEAC), Punjab should be considered for the 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 IIIA 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 the 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.

If any part of the data/information submitted by the project proponent is found to be false or misleading at any stage, then SEIAA & SEAC will not be responsible for the expenditure incurred on the project due to the issuance of this ToR or subsequent work

carried out by the project proponent for conducting EIA study or for any other activity related to the project.

The 'Terms of Reference' (TORs) prescribed will be valid for a period of three years from its issuance. The final EIA report shall be submitted to the SEIAA, Punjab for obtaining environmental clearance.

Item No. 197.11 Application for issuance of TORs for expansion in existing Steel manufacturing unit having existing capacity 24,500 TPA of Steel Billets/Ingots/Hand tool/Flats/Industrial rounds to 58,100 TPA of Steel Billets/Ingots/Hand tool/Flats/Industrial rounds by addition of induction furnaces at Village Dugri, Tehsil Payal, District- Ludhiana, Punjab by M/s Maruti Alloys (Proposal No. SIA/PB/IND/60505/2021).

The project proponent has applied for issuance of TORs to M/s Maruti Alloys for expansion in existing Steel manufacturing unit having existing capacity 24,500 TPA of Steel Billets/Ingots/Hand tool/Flats/Industrial rounds to 58,100 TPA of Steel Billets/Ingots/Hand tool/Flats/Industrial rounds by addition of induction furnaces at Village Dugri, Tehsil Payal, District- Ludhiana, Punjab Project is covered under Activity 3(a) & Category 'B1' as per EIA notification-2006.

1. The project proponent submitted the Form I, Pre-feasibility report and other additional documents on online portal. He has also deposited the requisite fee through NEFT dated 11.02.2021.
2. The project proponent during the presentation to the committee be ask to present the applicability of General Condition, suitability of site, land details etc.
3. The Environmental Engineer PPCB, RO1 Ludhiana was requested vide e-mail dated 04.03.2021 and 09.03.2021 to send the latest construction status report and the said report is awaited.

1.0 Deliberations during 197th meeting of SEAC held on 15.03.2021

The meeting was attended by the following:

1. Sh. Kuldip Singla, Partner.
2. Mr. Sital Singh, EIA coordinator, M/s CPTL Laboratories, Mohali, Environmental Consultant of the Project Proponent.

SEAC was apprised that the Punjab Pollution Control Board, Zonal Office 1, Ludhiana vide letter no. 928 dated 15.03.2021 has sent the latest construction status report and the contents of the report are given as under:

1. *The site of the Project is Located at Village Dugri, Teh. Payal, Ludhiana at co-ordinates 30.7948561, 75.9512517. No construction of the newly proposed project has been started. No proposed machinery has been installed. The existing unit was in operation during the visit.*

2. *Within the Radius of 500m of site there is no Residential area. There is one school namely Mount litera ZEE School, Teh. Payal Ludhiana which is within 500m radius of project site. There are about 5-6 industrial units and one flip kart godown within 500 meter radius of this unit.*

3. *The industry has obtained Consent to Operate under Air Act, 1981 vide no. CTOA/Fresh/LDH1/2019/11689453 dated 27/12/2019 valid upto 30/09/2024 & Water Act, 1974 vide no. CTOW/Fresh/LDH1/2019/11689499 dated 27/12/2019 valid upto 30/09/2024 for induction furnace of capacity 7 TPH and manufacturing of Steel ingots @24500 MTA.*

4. *The site is located more than 10 Km from the Municipal Corporation, Ludhiana limit as such the site is located outside the boundary of critical polluted area (Ludhiana).*

5. *The industry has submitted CLU vide STP letter no. 4401 dated 18.10.18 as per which site of the industry falls under Industrial Land Use Zone as per Master Plan Ludhiana, (2007-2031).*

SEAC allowed the Project Proponent to present the case and the Environmental Consultant of the Project Proponent presented the case as under:

Sr. No.	Description	Details
1.	In case of expansion projects, whether granted EC earlier, if Yes, then provide its details	It is an expansion project. But due to existing capacity of 24,500 TPA, earlier EC was not required.
2.	Nature of project (Fresh EC/EC for Expansion/New)	Fresh EC
3.	a) Category b) Activity (As per schedule appended to EIA Notification, 2006 as amended time to time.)	(a) B1 (b) Metallurgical Industries (ferrous & non ferrous) (8), Schedule 3(a) as per EIA notification-2006.
4.	Whether project falls within 5km from the boundary of critically polluted area (Yes/No)	The project sites is located at distance of 6.0 km from MC Limit Ludhiana.

5.	Details of Consent to operate under (Air/Water Act) of existing project				Consent to operate under (Air/Water Act) has been obtained from PPCB.
6.	Existing production Capacity (TPA)				Steel Billet/Ingots/Hand tool/Flats/Industrial Rounds- 24,500 TPA
7.	Details TOR processing fee submitted (25% of the total project cost)				An amount of Rs. 34,000/- submitted on dated 11.02.2021 through NEFT no.- N042211404111294
8.	Whether project is located near to PLPA area or fall in the PLPA area				The project site is neither located near to PLPA area nor fall in PLPA area.
9.	Classification/Land use pattern as per Master Plan				The site falls in Medium & heavy Industry zone as per master plan of Ludhiana (2007-21)
10	Details of CLU certificate				Memo no.- 4401 STP(L)/TW12A dated 18.10.2018 for an area of 1.455 acres. The site conforms for Industrial purposes.
11	Status of application to the PWRDA for abstraction of ground water.				The application has not been applied.
12	Project Area Details:				
	S. No.	Details	Existing Land	Proposed Additional Land	Total land after Expansion
	1.	Plot Area (in sqm)	16262	---	15305.76
	2.	Current Price of land (Rs. in Crores)	Lease land		

13	Total project cost breakup including cost of land, Building, Infrastructure, APCD and Plant & Machinery duly certified by Chartered Engineer/ Approved valuer or Chartered Accountant in the following format:				
	S. No.	Description	Existing (Rs. in Crores)	Proposed (Rs. in Crores)	Total Cost (Rs. in Crores)
	1	Cost of Land at current price level & area in sqm	Lease land		
	2	Building	2.38	1.50	3.88
	3	* Plant & Machinery	0.40	0.40	0.80
	5	Others	4.32	4.60	8.92
	Total		7.10	6.50	13.60
	*Project proponent shall assess the cost of APCD/ESP/ZLD/ETP/STP/Continuous online monitoring system etc from reputed supplier and shall include it in the Plant and machinery/APCD cost as per Quotation and Environment Management Plan. Accordingly, total project cost should be included in the EIA report.				
14	Raw Material requirement as per following format:				
	S.No.	Raw Material name	Existing (TPA)	Proposed (TPA)	After Expansion (TPA)
	1.	MS Scrap, CI, Sponge Iron, Ferro alloys	26950	36960	63910
15	Production Capacity as per following format:				
	S.No.	Product name	Existing (TPA)	Proposed (TPA)	After Expansion (TPA)
	1.	Steel Billets/Ingots/Hand tool flats/Industrial round	24500	33600	58100

16	Details of major productive machinery/plant				
	S.No.	Particulars	Existing	Proposed	After Expansion
	1.	Induction Furnace	1X 7TPH&	1X8 TPH & CONCAST	1X7 TPH 1X8 TPH& CONCAST
2.	CCM	Nil	01 No.	01 No.	
17	Status of Proposed ToRs		Standard TORs submitted.		

SEAC raised following observations to the project proponent:

Sr. No.	Observations	Reply
1.	The CLU of the Project Proponent is of 1.455 acres but the total land of the project is 3.8 acres.	The CLU of the total land will be obtained and submitted before at the time of EIA report.
2.	The Project Proponent shall obtain permission from PWRDA for abstraction of ground water.	Agreed by the Project Proponent.

The Environmental Consultant of the Project Proponent submitted that another industry namely M/s J.N. Tayal Steels Pvt. Ltd. Village- Bhagwanpura, Dehlon Road, Tehsil- Ludhiana East, District- Ludhiana, falls at a distance of 570 m of the industry and requested to allow the Project Proponent to utilize the same baseline study for preparation of the EIA report for the project.

SEAC allowed the Project Proponent to utilize the baseline study carried out for the industry namely M/s J.N. Tayal Steels Pvt. Ltd. Village- Bhagwanpura, Dehlon Road, Tehsil- Ludhiana East, District- Ludhiana for this project also.

After detailed deliberations, it was decided to categorize the project under Activity 3(a); B-1 with public consultation as required for the project. The baseline study of M/s J.N. Tayal Steels Pvt. Ltd. Village- Bhagwanpura, Dehlon Road, Tehsil- Ludhiana East, District- Ludhiana shall be utilized for preparation of EIA report. The Committee approved the following Terms of Reference for expansion in existing Steel manufacturing unit having existing capacity 24,500 TPA of Steel Billets/Ingots/Hand tool/Flats/Industrial rounds to

58,100 TPA of Steel Billets/Ingots/Hand tool/Flats/Industrial rounds by addition of induction furnaces at Village Dugri, Tehsil Payal, District- Ludhiana, Punjab for preparing Environmental Impact Assessment (EIA) report for the proposed project and recommended to SEIAA to issue the TORs given as under:-

A. STANDARD TERMS OF REFERENCE

1) Executive Summary

Report in about 8-10 pages incorporating the following:

- (i) Project name and location (Village, Distt., 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 its acquisition, nearby (in 2-3 km.) water body, population, within 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 groundwater 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/CER plan with proposed expenditure.
- (xiv) Occupational Health Measures

- (xv) Post Project monitoring plan
- (xvi) Synopsis of the project (as available on web site i.e. www.pbdecc.gov.in)

2) Introduction

- (i) Details of the EIA Consultant including NABET accreditation
- (ii) Information about the project proponent
- (iii) Importance and benefits of the project

3) 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 (breakup for induction and rolling mill), power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract).
- (viii) Process description along with major equipment and machineries, process flow sheet (quantitative) from raw material to products to be provided
- (ix) Hazard identification and details of proposed safety systems.
- (x) In case of Expansion/modernization proposals:
 - a) 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.
 - b) 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.

4) 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 top 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) Details w.r.t. option analysis for selection of site.
- (iv) Co-ordinates (lat-long) of all four corners of the site.
- (v) Google map-Earth downloaded of the project site
- (vi) Layout maps indicating existing unit as well as proposed unit indicating storage area of raw material, finished products, greenbelt area with marking of tree, Location of STP/ETP, Solid waste storage area, Parking space, Firefighting equipment layout, First aid room, Location of Tube wells, DG Sets & Transformers and any other utilities
- (vii) If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
- (viii) Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
- (ix) 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)
- (x) 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.
- (xi) Geological features and Geo-hydrological status of the study area shall be included.
- (xii) 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)
- (xiii) Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- (xiv) R&R details in respect of land in line with state Government policy

5) 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.

6) 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 PM 10, PM2.5, SO₂, NO_x, 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 (100m upstream and downstream) and other surface drains at eight locations as per CPCB/MoEF& CC guidelines.
- (v) Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF& CC.
- (vi) Groundwater monitoring at minimum at 8 locations shall be included.
- (vii) Noise levels monitoring at 8 locations within the study area.
- (viii) Soil Characteristic as per CPCB guidelines.

- (ix) Traffic feasibility / serviceability study for at least 5 days based on Indian Standard Codes. Further it shall also include the details of cross section of the road on which industry is located, vehicles movement w.r.t. the industry, traffic load of other vehicles on the road incorporating the haulage time for the vehicles for loading/unloading within the premises and parking requirement to avoid the traffic congestions on the link and adjoining roads. Traffic study shall be conducted considering the traffic of the industries located in the vicinity.
 - (x) 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.
 - (xi) Socio-economic status of the study area.
- 7) 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.
 - (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 in 33 % area with not less than 1,500 trees per hectares giving details of species, width of plantation, planting schedule, post plantation maintenance plan for 3 years shall be included. The green belt shall be around the 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 alternative sites shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the groundwater and also to use for the various activities to conserve freshwater 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 the District Disaster Management Plan.
- 8) Occupational health
- (i) Details of existing Occupational & Safety Hazards. What are the exposure levels of above-mentioned hazards and whether they are within the Permissible Exposure Level (PEL)? If these are not within PEL, what measures the company has adopted to keep them within PEL so that the 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 above-mentioned parameters as per age, sex, duration of exposure and department wise.
 - (iii) Annual report of the 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.

9) 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 processes/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 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 shall be detailed in the EIA report

10) 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 the operation phase.

11) Enterprise Social Commitment (ESC)

To address the Public Hearing issues, 2.5% of the total project cost of (Rs. crores), amounting to Rs. crores, shall be earmarked by the project proponent, towards Enterprise Social Commitment (ESC). Distinct ESC projects shall be carved out based on the local public hearing issues. Project estimate shall be prepared based on PWD schedule of rates for each distinct Item and schedule for time-bound action plan shall be prepared. These ESC projects as indicated by the project proponent shall be implemented along with the main project. Implementation of such program shall be ensured by constituting a Committee comprising of the project proponent, representatives of village Panchayat & District Administration. Action taken report in this regard shall be submitted to the Ministry's Regional Office. No free distribution/donations and or free camps shall be included in the above ESC budget

12) 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.

13) A tabular chart with index for points wise compliance of above TORs.

B. STANDARDISED SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR INDUCTION/ ARC FURNACES/CUPOLA FURNACES 5TPH OR MORE

- (i) Details of proposed layout clearly demarcating existing & proposed features of the project within the plant.
- (ii) Total no. of furnaces & details including capacity of each furnace.
- (iii) Detail of the mechanical shredder to reduce the size of the raw material.
- (iv) Complete process flow diagram describing each unit, its processes, and operations, along with material and energy inputs and outputs (material and energy balance).
- (v) Details on the design and manufacturing process for all the units.
- (vi) 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.
- (vii) Details on the requirement of raw materials, its source, and storage at the plant.
- (viii) Details on the requirement of energy and water along with its source and authorization from the concerned department. Location of water intake and outfall points (with coordinates).
- (ix) Details on toxic metal content in the waste material and its composition and end-use (particularly of slag).
- (x) 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.

C. ADDITIONAL SPECIFIC TORS DECIDED DURING MEETING OF SEAC

- (i) Public consultation is required for the projects as not located in notified industrial parks/estates.
- (ii) Submit proof of ownership of land (existing owner) such as copy of latest Jamabandi (not more than one month old) and credible document showing status of land acquisition w.r.t. project site as prescribed in OM dated 07.10.2014 issued by MoEF).
- (iii) Submit dully filled prescribed field data sheets and analysis reports along with exact location of sampling / monitoring point marked on the layout map. Also submit the status of approvals of Laboratories.
- (iv) Submit cost of the project duly certified by Chartered Engineer/ Approved valuer / Chartered Accountant. In the absence of above, the project proponent may submit self-certified detail of cost of the project mentioning the cost of Land, building, infrastructure and plant & machinery

- (v) Certificate from the concerned authority w.r.t the location of protected areas as notified under the Wildlife Protection Act, 1972 within 5 km radius from the boundary of the project site.
- (vi) Certificate from the Department of Town & Country Planning or concerned authorities to support the claim made by project proponent that the project site (3.8 acres land) is located in the industrial zone as per the provisions of Master Plan of Town/City in the jurisdiction of which the project site is located otherwise project proponent shall submit the Change of land use of the project site for total land area 3.8 acres.
- (vii) Compliance of the siting criteria, standard operating practices, code of practice, and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such type of units.
- (viii) Necessary permissions from the Central Groundwater Authority (CGWA)/ State Groundwater Authority (SGWA)/concerned authority for the abstraction of groundwater for the existing requirements as well as for the expanded unit. In case of not allowing such permission by the concerned authority for the abstraction of additional groundwater for the expanded project, the project proponent shall propose alternative arrangements to meet out the additional water requirements. It shall be ensured that: -
 - a) In the projects where groundwater is proposed as a water source, the project proponent shall apply to the Central Groundwater Authority (CGWA)/ State Groundwater Authority (SGWA), as the case may be, for obtaining No Objection Certificate (NOC) if applicable.
 - b) Approval /permission of the CGWA/SGWA shall be obtained before drawing groundwater for the project activities.
 - c) In the absence of approval, submit a copy of acknowledgment along with a set of application filed to CGWA /Competent Authority for obtaining permission for the abstraction of groundwater
- (ix) Minimize the water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.
- (x) STP for treatment of wastewater & re-utilization of the treated water for core/non-core activities so as to achieve the Zero Liquid Discharge Condition as per the III (iv) of OM dated 09/08/2018 issued by the MoEF&CC for such units.
- (xi) Reuse of cooling tower blow down, simultaneously ensuring the standards prescribed for such purge waters. If required, necessary arrangements shall be made to keep this waste stream within the parameters required for reuse.
- (xii) In case of any acid pickling activity, the spent acid/effluents generated from such activities shall be utilized through authorized re-processors for

converting the same into useful by-products like FeSO₄ etc. An agreement to this effect shall be made with the authorized agencies.

- (xiii) Adequate area to be reserved and marked on the layout plan for the green belt as per the conditions laid down by the MoEF&CC as per the Standard EC Conditions prescribed for Induction/ Electric Arc Furnace & Rolling Mills circulated vide OM dated 09/08/2018.
- (xiv) Detailed study report along with calculation for reserving land for loading or unloading of raw material, products, slag, hazardous waste as well as for storage of these materials and the area to be reserved for parking incorporating the time required for loading and unloading of vehicles for respective activities and minimum/maximum period for which storage of the above material is required in the premises. The areas for the respective activities to be marked on the layout plan.
- (xv) Action plan for the compliance of standard operating procedures and up-gradation of suction and treatment arrangement for the secondary emissions as prescribed by the State Pollution Control Board or by CPCB/MoEF&CC.
- (xvi) Compliance of standard operating procedures and up-gradation of suction/treatment systems for the control of secondary emissions within the time frame prescribed by the State Pollution Control Board. Similar action is to be implemented in the proposed expansion project.
- (xvii) Whole of the vehicle movement area as well as the approach road to the gate /weighing bridge shall be paved with pucca/metalled / cement concrete road to control the dust emissions expected from the vehicle movement.
- (xviii) The vehicles to be used for loading/unloading purposes shall not be parked along the roadside so as to avoid the traffic congestion and dedicated parking place to be provided for the same.
- (xix) Adopt green technologies to conserve the water and energy including shearing/cutting / bundling machines. Also, to provide abrasive resistant fire bricks in the crucibles to reduce the periodic maintenance & disposal of discarded fire bricks.
- (xx) Use of natural gas (if available) as substitute fuel wherever possible in the existing industry/ for the expansion project.
- (xxi) Delineate the concrete proposal regarding activities to be undertaken under Corporate Environmental Responsibility indicating the followings: -
 - a) various activities to be undertaken as per the provision of OM dated 01.05.2018
 - b) proportionate provisions of funds,
 - c) the period in which CER activities is to be implemented
 - d) the person(s) responsible for the implementation.

- (xxii) Submit compliance w.r.t. condition no.II [(i) & (iii)] subtitled as "Air Quality Monitoring & Preservation" regarding continuous emission monitoring system and continuous ambient air quality monitoring as prescribed in the Standard EC Conditions for Induction/ Electric Arc Furnace & Rolling Mills issued by the MoEF&CC, New Delhi vide OM dated 09/08/2018.
- (xxiii) Examine and submit the proposal for: -
- Recovery of iron from slag before disposing of it.
 - Identify the areas for utilization of slag in a scientific manner and explore its usage in cement/construction industry/manufacturing of pavers & tiles/road laying etc.
 - Recovery of precious metals like Zinc, lead and iron etc. from the APCD dust (Hazardous waste) through authorized re-processor.
- (xxiv) Air Pollution Control Arrangement details shall be provided as below:

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

- (xxv) Submit compliance regarding the installation of Pulse jet bag filter with offline cleaning technology as APCD with the proposed induction furnace.
- (xxvi) List the species with heavy foliage, broad leaves and wide canopy cover. The landscape planning should include plantation of native species. Water intensive and/or invasive species should not be used for landscaping

The following general points shall be noted:

- The EIA document shall be printed on both sides, as far as possible.
- All documents shall be properly indexed, page numbered.
- Period/date of data collection shall be clearly indicated.
- The letter/application for environmental clearance shall quote the MOEF / SEIAA file No. and also attach a copy of the letter.
- The copy of the letter received from the Ministry / SEIAA shall be also attached as an annexure to the final EIA-EMP Report.

- (vi) The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report.
- (vii) 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.
- (viii) 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.

The Terms of Reference (ToR) prescribed by the State Expert Appraisal Committee (SEAC), Punjab should be considered for the 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 IIIA 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 the 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.

If any part of the data/information submitted by the project proponent is found to be false or misleading at any stage, then SEIAA & SEAC will not be responsible for the expenditure incurred on the project due to the issuance of this ToR or subsequent work carried out by the project proponent for conducting EIA study or for any other activity related to the project.

The 'Terms of Reference' (TORs) prescribed will be valid for a period of three years from its issuance. The final EIA report shall be submitted to the SEIAA, Punjab for obtaining environmental clearance.

Item No. 197.12 Application for obtaining Environmental Clearance for expansion of the existing API manufacturing Industrial unit namely M/s Ind Swift Laboratories Ltd. Located at Barwala Road, Bhagwanpur, Dera Bassi, District SAS Nagar, Punjab. (Proposal No. SIA/PB/IND2/176305/2020)

SEAC observed as under:

The industry had earlier obtained Environmental Clearance from MoEF vide no. J-11011/246/2005 IA-II (1) dated 16.03.2006 for the manufacturing of various Bulk Drugs @ 405.20 TPA at village Bhagwanpur, Dera Bassi, District SAS Nagar. The said EC was valid for 15.03.2011.

Now, the industry has applied for expansion of the existing unit at the same location with the increase in the production capacity from 405.20 TPA to 621.6 TPA. The industry has submitted all the requisite documents as per the EIA notification dated 14.09.2006 alongwith requisite fee vide UTR No. BKIDH202737549 dated 29.09.2020.

As per EIA Notification,14.09.2006 the project falls under "A" category but now, MOEF&CC has issued OM vide F.No.22-25/2020-IA.IIIII dated 13.04.2020 which states that "proposal or activities in respect of Active Pharmaceuticals Ingredients (API) received upto 30.09.2020 shall be appraised as "B2" projects to ensure drug availability or production to reduce the impact of Novel Coronavirus. The project proponent applied for obtaining EC on 29.09.2020 and thus the project can be considered in B-2 category.

1.0 Deliberations during 197th meeting of SEAC held on 15.03.2021

SEAC was apprised about the latest construction report submitted by Punjab Pollution Control Board vide letter no. 1308 dated 15.03.2021. SEAC observed that the Environmental Consultant from the Project Proponent was not able to appear before the Committee to present the EIA report.

After detailed deliberations, SEAC decided to defer the case for next meeting.

Item No. 197.13 Application for obtaining extension in the validity of Environmental Clearance of construction project by M/s V.N. Sharma Builders Pvt. Ltd. in name & style "Savitry Greens" at village Bishanpura, Near Zirakpur, Tehsil Dera Bassi, SAS Nagar, Punjab (Proposal No.SIA/PB/MIS/169583/2020).

The Project was earlier granted Environmental Clearance under category 8(b) under the EIA notification dated 14.09.2006 vide no. SEIAA/MS/2013/3034 dated 28.10.2013.

The said Environmental Clearance was valid for period of 5 years from the date of its issue or till the completion of the project, whichever was earlier. However, the validity of the said EC can be assumed valid for 7 years i.e. upto 27.10.2020, in light of the provisions of the OM No. 22-27/2015- IA-III, MoEF&CC (IA Division) dated 12.04.2016. The project proponent applied for extension of EC on 25.08.2020.

As per the EIA notification dated 14.09.2006, the validity of Environmental Clearance of area development projects and Townships (8b), can be extended by a period of 3 years if an application is made by the applicant within the validity period. The project proponent applied for extension of EC on 25.08.2020. As such, project can be considered for extension of EC. The project proponent has submitted adequate fee through UTR no. SBIN22106453845 dated 03.03.2021.

In this regard it is mentioned here that the MoEF&CC vide its notification no. S.O. 221 (E) dated 18.01.2021 has amended the principal notification and the relevant part is given as under:

"9A. Now with standing anything contained in this notification, the period from the 1 April, 2020 to the 31 March, 2021 shall not be considered for the purpose of calculation of the period of validity of Terms of Reference granted under the provisions of this notification in view of outbreak of Corona Virus (Covid-19) and subsequent lockdown (total or partial) declared for its control , however all activities undertaken during this period in respect of the Environmental Clearance granted shall be treated as valid."

Thus, in light of this notification the Environmental Clearance of the project can be deemed valid up to 24.05.2021.

1.0 Deliberations during 197th meeting of SEAC held on 15.03.2021

The meeting was attended by following on behalf of Project Proponent.

1. Sh. R.K Mittal, GM, on behalf of the Project Proponent.

2. Mr. Sital Singh, EIA coordinator, M/s CPTL Laboratories, Mohali, Environmental Consultant of the Project Proponent.

SEAC perused the case and observed that in light of EIA notification 14.09.2006, the Environment Clearance of the project could be extended for a period of 3 years.

After detailed deliberations, SEAC decided to forward the case to SEIAA alongwith recommendations to extend the Environment Clearance granted to the project namely "Savitry Greens" in the revenue estate of village Bishanpura, Zirakpur, Tehsil Dera Bassi, District SAS Nagar, by M/s V.N. Sharma Builders Pvt. Ltd., for a period of three years i.e. upto 23.05.2024, subject to same terms and conditions as imposed in the original Environment Clearance granted vide no. SEIAA/MS/2013/3034 dated 28.10.2013.

Item No. 197.14 Application for obtaining extension in the validity of Environmental Clearance of construction of a Residential Complex "Savitry Greens-II" in the revenue estate of village Gazipur, Zirakpur, District SAS Nagar, by M/s N.K. Sharma Enterprises (Proposal No. SIA/PB/MIS/197738/2021).

The Project was earlier granted Environmental Clearance under category 8(b) under the EIA notification dated 14.09.2006 vide no. SEIAA/MS/2013/2843 dated 14.01.2014.

The said Environmental Clearance was valid for period of 5 years from the date of its issue or till the completion of the project, whichever was earlier. However, the validity of the said EC can be assumed valid for 7 years i.e. upto 13.01.2021, in light of the provisions of the OM No. 22-27/2015- IA-III, MoEF&CC (IA Division) dated 12.04.2016.

As per the EIA notification dated 14.09.2006, the validity of Environmental Clearance of area development projects and Townships (8b), can be extended by a period of 3 years if an application is made by the applicant within the validity period. The project proponent applied for extension of EC on 11.02.2021.

In this regard it is mentioned here that the MoEF&CC vide its notification no. S.O. 221 (E) dated 18.01.2021 has amended the principal notification and the relevant part is given as under:

"9A. Now with standing anything contained in this notification, the period from the 1 April, 2020 to the 31 March, 2021 shall not be considered for the purpose of calculation of the period of validity of Terms of Reference granted under the provisions of this notification in view of outbreak of Corona Virus (Covid-19) and subsequent lockdown (total or partial) declared for its control , however all activities undertaken during this period in respect of the Environmental Clearance granted shall be treated as valid."

Thus, in light of this notification the Environmental Clearance of the project can be deemed valid up to 26.10.2021.

The project proponent submitted adequate fee through NEFT dated 04.03.2021.

1.0 Deliberations during 197th meeting of SEAC held on 15.03.2021

The meeting was attended by following on behalf of Project Proponent.

1. Sh. R.K Mittal, GM, on behalf of the Project Proponent.
2. Mr. Sital Singh, EIA coordinator, M/s CPTL Laboratories, Mohali, Environmental Consultant of the Project Proponent.

SEAC perused the case and observed that in light of EIA notification 14.09.2006, the Environment Clearance of the project could be extended for a period of 3 years.

After detailed deliberations, SEAC decided to forward the case to SEIAA alongwith recommendations to extend the Environment Clearance granted to the residential project namely "Savitry Greens-II" in the revenue estate of village Gazipur, Zirakpur, District SAS Nagar, by M/s N.K. Sharma Enterprises, for three years i.e. 25.10.2024, subject to same terms and conditions as imposed in the original Environment Clearance granted vide no. SEIAA/MS/2013/2843 dated 14.01.2014.

Item No. 197.15 Application for obtaining Environmental Clearance under the EIA notification 14.09.2006 for setting up of new Pharmaceutical Park (Bulk drugs & APIs and Formulations) at Village Wazirabad, Distt- Fatehgarh Sahib, Punjab by M/s Punjab Small Industries & Export Corporation Ltd (Proposal No. SIA/PB/NCP/61716/2020).

1.0 Present case:

The project proponent was issued ToR for setting of new Pharmaceutical Park for manufacturing Bulk drugs & APIs and formulations with capacity of 7,30,000 TPA at Village Wazirabad, Distt- Fatehgarh Sahib, Punjab by M/s Punjab Small Industries & Export Corporation Ltd. Project vide Letter no. SEIAA/MS/2020/3221 dated 28.10.2020.

The project proponent has applied for obtaining Environmental Clearance for the above said project and has submitted the EIA report. The case was considered by SEAC in its 197th meeting held on 15.03.2021 and was attended by following on behalf of Project Proponent.

1. Sh. Parminder Singh, Executive Engineer, PSIEC Chandigarh.
2. Mr. MAF Khan, DG Goswami, EIA coordinator, M/s Enkay Enviro Services Pvt. Ltd.

SEAC allowed the Environmental Consultant of the project proponent to present the EIA report which he presented as under:

1.	Nature of project	New
2.	a) Category b) Activity (As per schedule appended to EIA Notification, 2006 as amended time to time)	B1 7(C) Industrial estates/Parks/Complexes/Areas, Export Processing Zones
3.	Whether the project falls in the critical polluted area notified by MoEF&CC/CPCB. (Yes/No)	No
4.	a. Total Project Cost (In Crores):	(a) Total Project Cost : Rs. 153.7 crores; (b) Total project cost breakup is given below:

b. Total project cost breakup at current price level duly certified by Chartered Engineer/ Approved valuer or Chartered Accountant	S. N	Cost Components	In Crores		
	1.	Land	58.43		
	A	Basic Development cost (Civil works, PHE works, Electrical works)	52.48		
	B	CETP on ZLD Technology capacity of 1.5MLD	24.0		
	C	STP along with Tertiary Treatment capacity of 0.5 MLD	3.0		
	F	Add: interest@ 9% for 9 months taking development period of 1.5 years	5.36		
		Sub-Total	84.84		
	G	Add: Contingencies and pretty Establishment Charges (1%)	0.85		
	H	Add: Departmental charges @10%	8.48		
	I	Add: Consultancy Charges @0.7%	0.59		
		Total	94.77		
	3.	Pre-operative Expenses	0.5		
		Total Project Cost	153.7		
5.	Amount of EC Processing Fee deposited by NEFT/DD (Rs. In Lacs)	4,30,000 (25% of the total fee has already been deposited to SEIAA vide UTR no. PUNBH20279971664) The project proponent submitted that the balance fee of Rs. 11.07 lacs will be deposited, as the approval is taking time being a Govt Project.			
6.	Details of technology proposed for control of emissions & effluents generated from project	S. N	Details of proposed APCD/STP/ETP/ZLD/Continuous online monitoring system	Technology to be adopted	Capacity of proposed technology
		1	CETP	ZLD	1.5 MLD

		2	STP	SBR/MBBR	0.5 MLD
		3	APCD	To be provided by the individual industries	
7.	Plot Area Details	Total Plot area : 53.7 hectares (130.32 acres)			
		SN	Landuse	Area (in Acres)	Percentage
		1	Industrial plots	67.93	52.13
		2	Commercial use	6.00	4.60
		3	Public building	4.00	3.07
		4	Elec. Substation	8.00	6.14
		5	Water works/WTP	2.63	2.02
		6	CETP/STP	3.65	2.80
		7	Green/Open space	20.06	15.39
		8	Common Waste Material	1.00	0.77
		9	Road/Rasta	17.05	13.08
		10	Total	130.32	100.00
8.	a. Type of project land as per master plan (Industrial/Agriculture/Any other)	The proposed land falls under Industrial zone of Notified master plan of Mandi Gobindgarh.			
9.	ToR compliance report (Submitted/ not submitted)	ToR compliance Submitted			
10.	Compliance report of public hearing proceedings (Action Taken)	Submitted			

11.	<p>a. Whether any litigation pending against the project or any direction/order passed by SPCB/ Court of Law against the project, if so, details there of shall also be included.</p> <p>b. 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.</p>	<p>There is no litigation pending against the industry.</p> <p>No.</p>																						
12.	Raw material details:	<p>In the proposed project is meant for the production and manufacturing of API's and Intermediates involves various raw materials, where chemical reactions will take precipitation, substitution, addition, centrifugation, purifications, solvent recovery etc.</p>																						
13.	Production Capacity details:	<table border="1"> <thead> <tr> <th data-bbox="802 1083 1170 1146">Product Name</th> <th colspan="2" data-bbox="1170 1083 1511 1146">Total (TPA)</th> </tr> </thead> <tbody> <tr> <td data-bbox="802 1146 1170 1274">API & Bulk Drugs, Intermediates and formulations</td> <td colspan="2" data-bbox="1170 1146 1511 1274">2000 TPD/730000TPA</td> </tr> </tbody> </table>			Product Name	Total (TPA)		API & Bulk Drugs, Intermediates and formulations	2000 TPD/730000TPA															
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14.	Manpower requirement (After expansion)	<p>Temporary employment during construction- 500 Permanent employment during Operation- 2500 Total Manpower- 3000</p>																						
15.	Details of Emissions (After expansion)	<table border="1"> <thead> <tr> <th data-bbox="802 1423 862 1499">S N</th> <th data-bbox="862 1423 1049 1499">Source</th> <th data-bbox="1049 1423 1211 1499">Capacity</th> <th data-bbox="1211 1423 1511 1499">Chimney Height (m)</th> </tr> </thead> <tbody> <tr> <td data-bbox="802 1499 862 1583">i</td> <td data-bbox="862 1499 1049 1583">Boiler (21 Nos.)</td> <td data-bbox="1049 1499 1211 1583">1 TPH</td> <td data-bbox="1211 1499 1511 1583">30</td> </tr> <tr> <td data-bbox="802 1583 862 1667">ii</td> <td data-bbox="862 1583 1049 1667">Boiler (23 Nos.)</td> <td data-bbox="1049 1583 1211 1667">2 TPH</td> <td data-bbox="1211 1583 1511 1667">30</td> </tr> <tr> <td data-bbox="802 1667 862 1751">iii</td> <td data-bbox="862 1667 1049 1751">Boiler (06 Nos.)</td> <td data-bbox="1049 1667 1211 1751">3 TPH</td> <td data-bbox="1211 1667 1511 1751">30</td> </tr> <tr> <td data-bbox="802 1751 862 1829">iv</td> <td data-bbox="862 1751 1049 1829">Boiler (01 Nos.)</td> <td data-bbox="1049 1751 1211 1829">5 TPH</td> <td data-bbox="1211 1751 1511 1829">30</td> </tr> </tbody> </table>			S N	Source	Capacity	Chimney Height (m)	i	Boiler (21 Nos.)	1 TPH	30	ii	Boiler (23 Nos.)	2 TPH	30	iii	Boiler (06 Nos.)	3 TPH	30	iv	Boiler (01 Nos.)	5 TPH	30
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iii	Boiler (06 Nos.)	3 TPH	30																					
iv	Boiler (01 Nos.)	5 TPH	30																					

		v	Boiler (01 Nos.)	45 TPH	30
		vi	DG Set	5*100 KVA	15 m above roof level
		vi	DG Set	21*200 KVA	15m above roof level
		i			
		vi	DG Set	30*500 KVA	15 m above roof level
		ii			
		ix	DG Set	03*1000 KVA	30 m above roof level
16.	Hazardous/Non-Hazardous Waste Generation details & their storage, utilization and its disposal. Copy of Agreement clearly mentioning the Quantity	<p>The PSIEC shall make proper arrangement for storage & disposal of ETP sludge as per the provisions of Hazardous Waste Management Rules), 2016.</p> <p>Further the individual industries shall also make proper arrangement for storage & disposal of ETP sludge/ other hazardous wastes as per the provisions of Hazardous Waste Management Rules), 2016.</p>			
		S			
		.			
		N	Particulars	Total (kg/day)	Treatment/ disposal
		o			
		1.	Hazardous waste (ETP sludge) from CETP	6MT/day (i.e:180MT/month)	It is will be sent to the authorized Hazardous waste disposal & landfill facility at TSDF- Nimbua after getting the MOU with the facility.
17.	Solid Waste generation and its mode of disposal:	S			
		.			
		N	Particula	Total (kg/day)	Treatment/ disposal
		o	rs		

		1	Municipal Solid Waste	600kg/day i.e:18 MT/month	It is being sent to Authorized MSW landfill disposal facility with the local administration		
		2	STP Sludge(biological treatment)	300kg/day (i.e.: 9 (MT/month)	will be used as manure		
18.	Waste water generation & its disposal Arrangement in Operation Phase:	Particulars	Fresh Water Demand (MLD)	Recycled / Reuse*	Total	Waste water generation (MLD)	Effluent Treatment & disposal facility
		Domestic	0.5	-	0.5	0.4	STP (Capacity-0.5 MLD) and 0.396 MLD reused in green area/Horticulture.
		Green Belt	-	0.396*	0.396*	-	STP Treated water 0.396 MLD used in green area/Horticulture.
		Industrial	1.5	1.4	2.9	1.480	Waste water will be treated in CETP (1.5 MLD capacity) followed by RO plant with MEE and recycled in Cooling Tower & process to maintain the ZLD.
		Total	2.0	1.4	3.4	1.88	1.4 MLD treated water will be used in Cooling tower/process & 0.396 MLD treated water

						will be reused in green area/ Horticulture.
19.	Details of the block in which the project site is located as per CGWA guideline (Notified/ Non-Notified area and name of block)	Sirhind block-Over exploited category as per CGWB report of Fatehgarh Sahib District. However, PSIEC shall draw water from nearby canal.				
20.	Breakup of Water Requirements & its source in Operation Phase:	S. N	Water Requirement	Amount		
		1	Initial One-time Requirement of Water Demand in Proposed Pharma Park	3.40MLD		
		2	Recycled Water to be used in Pharma Park	1.40 MLD		
		3	Net Requirement of Water on Daily Basis	2.00 MLD		
		Source: Punjab Water Sources Department through Rajbaha canal.				
21.	Water balance chart for Summer, Rainy and Winter seasons (Submitted/Not Submitted)	Presented				
22.	Rain Water utilization proposal during monsoons (Submitted/Not Submitted)	Rain water harvesting structures (rainwater collection tanks, recharge pits,etc.) will be maintained at individual plots and the collected rainwater will be reused after appropriate treatment for various industrial activities and greenbelt development. Rainfall available for harvesting after runoff: 256154.9 m3/annum				
23.	Rain Water Harvesting proposal (within/outside premises) along with NOC from concerned	The rain water will be guided through network of storm water drains inside the boundary into settling tank which will be further connected into recharge				

	village sarpanch (Submitted/Not Submitted)	pits which will be constructed in order to harvest rain water as per gradient of drains.			
24.	Blockwise details of no. of trees to be planted in proposed greenbelt area(1500 Trees to be planted @ 10000 Sqm area):	S no	Year	Proposed No of plants	Proposed Species
		1	2021-22	5570	Species have been suggested by considering various biological and environmental roles of the various plant species like Dust Control, Noise Control, Absorptions of Gases, Drought resistance, Fire Resistance etc. Also some flowering herbs and shrubs have been suggested to enhance aesthetic beauty of the project site area.
		2	2022-23	5570	
		3	2023-24	5570	
		4	2024-25	5570	
		5	2025-26	5570	
		Total			
<p><u>Budget</u></p> <p>A capital cost provision of Rs. 1,11,40,000/- has been kept for development of greenbelt as given in Table below The budget includes cost of digging of pits, fertilizers, saplings and maintenance @400/- per sapling in next five years.</p>					
25.	Energy requirements & savings: Energy saving measures to be adopted within industry:	The details of the energy are given below:			
		Category	Net Load (MW)	DG Set Capacity (assumed) - MW	
		Anchor Unit	21.92	25%	5.48
		Other Industrial Units	1.05	50%	0.53
		Commercial	5.71	80%	4.57
		Others including STP	0.33	100%	0.33
		Total (Estimated load in MW) :	29.01		10.90

		Estimated load in MVA (power factor= 0.9):	32.23 MVA		12.11 MVA																												
		<p>Details of Energy saving measures adopted within the industry: Solar energy is proposed as an alternative energy for street lighting and the details are given in Chapter 5, Section 5.4.</p>																															
26.	EMP Budget details	<p>EMP budget details:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #f2f2f2;"> <th style="text-align: center;">S. No.</th> <th style="text-align: center;">Description of Item</th> <th style="text-align: center;">Total (In Lacs)</th> <th style="text-align: center;">Recurring Cost (In Lacs)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Air Pollution Control/ Noise</td> <td style="text-align: center;">100</td> <td style="text-align: center;">10</td> </tr> <tr> <td style="text-align: center;">2.</td> <td>Water Pollution Control</td> <td style="text-align: center;">2700</td> <td style="text-align: center;">27</td> </tr> <tr> <td style="text-align: center;">3.</td> <td>Environmental Monitoring and Management</td> <td style="text-align: center;">30</td> <td style="text-align: center;">10</td> </tr> <tr> <td style="text-align: center;">4.</td> <td>Green Belt Development</td> <td style="text-align: center;">111.40</td> <td style="text-align: center;">4.0</td> </tr> <tr> <td style="text-align: center;">5.</td> <td>Occupational Health</td> <td style="text-align: center;">20</td> <td style="text-align: center;">05</td> </tr> <tr style="font-weight: bold;"> <td colspan="2" style="text-align: right;">Total</td> <td style="text-align: center;">2961.40</td> <td style="text-align: center;">56</td> </tr> </tbody> </table> <p>The EHS department head of PSIEC is responsible for the implementation of conditions by MoEF&CC in EC and state PCB in CFE. The organogram of the EHS department is shown in section 6.7 of Chapter 6, Figure 6.0. Individual industries are responsible for maintaining their own EC/CFE/CFO Conditions.</p>				S. No.	Description of Item	Total (In Lacs)	Recurring Cost (In Lacs)	1.	Air Pollution Control/ Noise	100	10	2.	Water Pollution Control	2700	27	3.	Environmental Monitoring and Management	30	10	4.	Green Belt Development	111.40	4.0	5.	Occupational Health	20	05	Total		2961.40	56
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27.	Details of the activities proposed to be covered under CER be provided in below format:	Not Applicable as per MOEF&CC OM 22-65/2017-IA.III dated 30.09.2020 and OM 22-65/2017-IA.III dated 20.10.2020
28.	Project area involves forest land, (Yes/No),	No forest land is involved in the project area.
29.	Traffic Study Details:	Presented

SEAC raised the following observations to the Project Proponent:

Sr. No.	Observations	Reply
1.	The project proponent has not deposited complete fee for processing application of EC.	Sh. Parminder Singh, Executive Engineer, PSIEC assured that the fee would be deposited before the meeting of SEIAA.
2.	The permission from the Department of Water Resources to draw canal water not submitted.	Sh. Parminder Singh, Executive Engineer, PSIEC assured that the permission would be submitted before the meeting of SEIAA.

SEAC was satisfied with the presentation and the reply to the observations raised by the SEAC by the Environmental Consultant.

After detailed deliberations, SEAC decided to award '**Silver Grading**' to the project proposal under category B1, Activity 7(c) and to forward the application to SEIAA with the recommendations to grant Environmental Clearance for setting up of new Pharmaceutical Park (Bulk drugs & APIs and Formulations) at Village Wazirabad, Distt-Fatehgarh Sahib, Punjab by M/s Punjab Small Industries & Export Corporation Ltd, as per the details mentioned in Form 2, EIA report & subsequent presentation /clarifications made by the project proponent & his consultant and conditions are as under:

Special Conditions:

1. The project proponent shall submit complete application fee before the case is considered by SEIAA.
2. The project proponent shall submit permission from Department of Water Resources for utilization of canal water before the case is considered by SEIAA.