STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY PUNJAB
Ministry of Environment, Forest & Climate Change, Government of India
O/o Directorate of Environment & Climate Change
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No. SEIAA/M.S./2020/3370 **Registered/E-Mail** **Date:** 05/11/2020

To

Mr. Parveen Goyal,
M/s Saurav Chemicals Ltd.,
Village- Bhagwanpura, Tehsil-Derabassi,
SAS Nagar, Mohali, 140507
Mobile No. 9815995763.

Subject: **Environmental Clearance for Expansion of API and Intermediate Bulk Drug Pharmaceutical manufacturing unit "M/s Saurav Chemicals Limited" from existing production capacity of 4.60 TPM to 233.7 TPM located at Village Bhagwanpura Tehsil- Derabassi SAS Nagar, Punjab (Proposal no SIA/PB/ IND2 / 174361 /2020)**

This has reference to your online Proposal No. SIA/PB/ IND2 / 174361 /2020 for expansion of API and Intermediate Bulk Drug Pharmaceutical manufacturing unit from existing production capacity of 4.60 TPM to 233.7 TPM located in the revenue estate of Village Bhagwanpura Tehsil- Derabassi SAS Nagar, Punjab. 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.IIII dated 13.04.2020 which states that the proposal w.r.t Active Pharmaceuticals Ingredients (API) received up to 30.09.2020 shall be apprised as "B2" projects to ensure drug availability or production to reduce the impact of Novel Coronavirus. The proposal has been appraised as per procedure prescribed under the provisions of EIA Notification 14.09.2006 on the basis of the mandatory documents enclosed with the application viz., Form 1, PFR, EMP, additional documents & subsequent presentation /clarifications made by the project proponent & his consultant to the observations of SEIAA and SEAC. The salient features of the project are as under:-

1.	Name of the project	M/s Saurav Chemicals Private Limited		
2.	Category & Activity	5 (f), As per S.O. 1223(E) dated: 27.03.2020		
3.	Expansion Cost	Rs. 67 Crores		
4.	Details of technology proposed for control of emissions & effluents generated from project	Particulars	Capacity	Technology
		Effluent Treatment Plant	100 m^3/day	MBBR Technology
		Evaporation of HTDS effluent	30 KLD	MEE/MVR Technology
		APCD	----	Multicyclone & scrubbers

		Incinerator	100 kg/hr	Pyrolysis Technology

5.	Co-ordinates	Point	Latitude	Longitude
		A	76°53' 32.46"E	30°34' 31.56"N
		B	76°53' 39.29"E	30°34' 41.48"N

6.	Production Capacity of existing and proposed products :	S. No.	Products	Production
		Existing (4.60 TPM)		
		1.	Atorvastatin	0.102
		2.	Fexofenadine hydrochloride	2
		3.	Pentazocin hydrochloride	1
		4.	Serteraline hydrochloride	1.5
		Proposed (233.7 TPM)		
		1	Alpha Lipoic Acid	2.50
		2	Amiodarone Hydrochloride	0.83
		3	Atropine Sulphate	0.02
		4	Chlorzoxazone	3.33
		5	ClopiBsylate	2.50
		6	Clopi Form-2	2.50
		7	Clopi Form-1	2.50
		8	D-Cycloserene	2.50
		9	Dexketoprofen trometamol	3.33
		10	Diethylcarbamazine Citrate	5.00
		11	Febuxostat	2.50
		12	Homatropine Hydrobromide	0.08
		13	Homatropine MethylBromide	0.42
		14	Ketorolac Tromethamine	0.29
		15	Levofloxacin hemihydrates	3.33
		16	Loxoprofen Sodium	8.33
		17	Pregabalin	2.50
		18	Rabeprazole Sodium	0.83
		19	Rebamipide	8.33
		20	Atorvastatin	2.50
		21	Celecoxib	4.17
		22	Clarithromycin	4.17
		23	Flurbiprofen	0.83
		24	Rosuvastatin	0.83
		25	Strontium Ranelate	1.67
		26	Ketoprofen From CEBA	3.33
		27	Ketprofen from Keto Nitrile	3.33
		28	Sertraline Hydrochloride	2.50
		29	Tris Buffer	0.83
		30	Vidagliptin	2.50
		31	Acetoxy EthylBromide	41.67
		32	BromoButyric Acid	2.50
		33	CLA	2.50

		34	Mono-P-Nitrobenzyl malonate magnesium salt	4.17
		35	Para Nitro Benzyl Alcohol(PNBA)	8.33
		36	HBr 48%	41.67
		37	Para nitro benzyl bromide (PNBB)	41.67
		38	Para Nitro benzyldehyde(PNBD)	0.42
		39	4-Bromomethyl quinolone-2(1H)-one(BMQ)	8.33
		40	4-Bromomethyl - 2cynobiphnyl(BMC)	4.17
		Total Production (TPM)		233.7
7.	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 will be designed for absorbing HCL, SO2. Further, boiler ash of 1TPD will be treated in multicyclone followed by scrubber and will be sent to brick manufacturer.		
8.	Hazardous/Non-Hazardous Waste Generation details & their storage, utilization and its disposal. Copy of Agreement clearly mentioning the Quantity			

Category	Type of Hazardous Waste	Expected quantity	Disposal Methods
5.1	Used/spent oil	7.0 KL/year	Will be sold to Bharat Oil Company (BOCL), and Aggarwal Manufacturing Co.
28.1	Process Residue and wastes	950 MT/year	Will be sent to Green Gene Enviro Protection and Infrastructure Private Limited (GGEPI)
28.2& 28.3	Spent catalyst/Spent carbon	10 MT /year	Will be sent to Green Gene Enviro Protection and Infrastructure Private Limited (GGEPI)
28.4 & 28.5	Off Specification products/date expired products	2500 Kg/year	Will be sold to Bharat Oil Company
28.6	Spent solvents	2000 KL/Year	Will be sold to Bharat Oil Company
33.1	Discarded containers / barrels /liners used for hazardous wastes/ chemicals	20000 No. /Year	Will be sent to Enviro Clean, Mohali
33.1	Discarded containers / barrels /liners used for hazardous wastes/ chemicals	1000 Kg. /Year	Will be sent to Enviro Clean, Mohali
35.3	Chemical Sludge from wastewater treatment	2190 MT/Year	Will be disposed to Government approved land fill site M/s Ramky Enviro Engineers

				Limited (REEL), Nimbua for further treatment & disposal.
	36.1	Any Process or Distillation Residue		Will be sent to Green Gene Enviro Protection and Infrastructure Private Limited (GGEPI)/ BOCL
	36.2	Spent carbon or filter medium	8500 Kg/Year	Will be sent to Green Gene Enviro Protection and Infrastructure Private Limited (GGEPI)/ BOCL
	37.2	Ash from incinerator	500 MT/year	Will be sent to TSDF-Nimbua
	37.3	Concentration or evaporation residue	150 MT/year	Will be sent to TSDF – Niimbua/ BOCL

9.	Breakup of Water Requirements & its source in Operation Phase	Source of Water –Ground Water & Treated waste water from STP

S. No.	Description	Existing	After Expansion
1	Process water	8 KLD	15.0KLD
2	Washing	25 KLD	35.0 KL
3	Cooling Tower	7 KLD	40.0KLD
4	Domestic uses	7 KLD	10.0KLD
5	Green Belt	10 KLD	25 KLD
	Total	57 KLD	125 KLD
*Additional water requirement for green belt during Summer season			44 KLD

* Additional 44 KLD water will be met from STP of GMADA, NOC from GMADA dated 22.10.2020 for getting treated waste water supply of 4 MLD has been obtained

The case was considered by the SEAC in its 194th meeting held on 23.10.2020, wherein, the Committee observed that the project proponent has provided adequate and satisfactory clarifications to the observations raised by it, therefore, the Committee awarded 'Silver Grading' to the project proposal and decided to forward the case to the SEIAA with the recommendation to grant Environmental Clearance to the project proponent under EIA notification dated 14.09.2006 for the project, subject to certain conditions in addition to the proposed measures.

Thereafter, the case was considered by the SEIAA in its 173rd meeting held on 30.10.2020. The SEIAA observed that the case stands recommended by SEAC and the Committee awarded 'Silver Grading' to the project proposal. The Authority looked into all the aspects of the project proposal in detail and was satisfied with the same. Therefore, the Authority decided to grant the Environmental Clearance for expansion of API and Intermediate Bulk Drug Pharmaceutical manufacturing unit from existing production capacity of 4.60 TPM to 233.7 TPM located in the revenue estate of Village

Bhagwanpura Tehsil- Derabassi SAS Nagar, Punjab, as per the details mentioned in Form 1, PFR, EMP, additional documents & subsequent presentations/ clarifications made by the project proponent and his Environmental Consultant, subject to certain amended conditions as agreed by the project proponent and other conditions as proposed by SEAC in addition to the proposed measures.

Accordingly, SEIAA, Punjab hereby accords Environmental Clearance for the above project under the provisions of EIA Notification dated 14.09.2006 & its subsequent amendments and MoEF&CC OM dated 13.04.2020 as B2 project, subject to proposed measures & strict compliance of terms and conditions as follows: -

I. Statutory compliance

i. The project proponent shall obtain forest clearance under the provisions of the Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest 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 SO_2 and NO_x in reference to $S0_2$ 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. As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.

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 125 KLD. Prior permission shall be obtained from the concerned regulatory authority/CGWA with regard to renewal of NOC. Further, additional 44 KLD water requirement for green belt shall be met from GMADA STP as treated waste water of 4 MLD as per agreement.

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 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/greenbelt 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

More than 1200 numbers of trees has already been planted, and rest 672 plants will be planted in monsoon of year 2021 and 2022.

VII. Green Belt

i. The green belt of 10 m width 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 1872 trees to be planted without accounting the shrubs and protect the same with tree guard made of concrete. More than 1200 numbers of trees has already been planted and rest 672 plants will be planted in monsoon of year 2021 and 2022.

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. Corporate Environment Responsibility

i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility. The company will be responsible for implementation of Corporate Environment Responsibility with in 5 year of time. As the project cost is Rs 67.0 Crores, therefore 1% of project cost i.e. Rs 67 Lacks needs to be reserved for CER activity as per office memorandum of CER dated 01-05-2018. The activities cover is as under:

Description	Activity proposed	Environment aspect	Cost	Timeline	
				Start	End
1. Govt. Middle School Saidpura 2. Govt. Middle School Rampur Sainia 3. Govt. Elementary School Kuranwala	Water coolers in school	Sanitation	Rs 2.5 Lacs	May 2021	--
	Plantation of trees all around the boundary wall of schools	Aesthetic & Pollution Control	Rs 2.5 Lacs	June 2021	June 2023
	Solar panel in school	Energy saving/Resource Conservation	Rs 12.0 Lacs	November 2021	--
	Separate Toilets for boys and girls in school	Sanitation	Rs. 12.0 Lacs	May 2022	June 2022
	Health and environment camps	Education	2.5 Lacs	June 2021	June 2023
	Other requirements	---	2.5 Lacs	---	---
4. Kheri Jatan	Water Treatment plant, and pipeline for agricultural field	Sanitation	Rs 23.0 Lacs	June 2020	June 2021
	Cleaning of Pond	Rain water harvesting	Rs 10.0 Lac	June 2020	June 2021
	Total		67 Lacs		

The amount to be spent on CER activities shall be proportionate to the amount spent on project & such activities shall run parallel to the project execution. All the activities must be completed with the completion of the project.

ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/ forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements/ deviation/ violation of the environmental/ forest/ wildlife norms/ conditions to all shareholders/ stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.

iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by the competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report. The project proponent shall adhere to the commitments made in the Environment Management Plan and shall spend minimum amount of Rs. 8.5 Crore as a Capital expenditure and Rs. 8 lacs per annum as recurring expenditure as proposed in the EMP as under:

Sr. No.	Particulars	Approx. Capital Cost (Crore)	Approx. Recurring Cost Annually (Lac)	Parameters Covered
1.	Multi-Cyclone & Scrubbers	Rs 2.50	Rs 2.5	SPM,CO_2, NO_x, and ACID MIST
2.	Multi Effect Evaporator (mee)	Rs 3.00	Rs 1.5	----
3.	Incinerator	Rs 1.50	Rs 1.5	SPM, CO, ACID MIST
4.	Effluent Treatment Plant	Rs 1.40	Rs 2.0	pH, TSS, TDS, COD, BOD, O/G, Phenolic Compound, Ammonical Nitrogen & Bio-assay
5.	Green Belt Development	Rs. 0.1	Rs.0.5	Saplings, transportation, fertilizers, horticulturist etc.
TOTAL		Rs. 8.5	Rs 8.0	----

v. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

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, S02, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.

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. As proposed, the project proponent shall provide effluent treatment plan to treat the high TDS stream with MEE. The treated waste water will be used in the process for core/non-core activities within the premises to achieve the Zero Liquid Discharge.

ii. The project proponent shall provide STP of adequate capacity for the treatment of domestic effluent / sewage and shall utilize whole of this treated effluent for horticulture, plantation and green area.

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. Artificial Rain Water recharging/rainwater harvesting shall be carried out as required by CGWA. However, recharging structures shall not be provided within the plant premises to avoid any intentional or unintentional discharge of trade or domestic effluent.

vii. The project proponent shall practice rainwater harvesting to maximum possible extent outside premises. For this 1 village pond having volume @ 106260m^3, located at Village Fatehpur, Tehsil Derabassi & District Mohali respectively 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 Phytorid 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.

viii. The project proponent shall conduct the following studies and the submit the same to SEIAA, Punjab, Regional Office of MOEF, Chandigarh and PPCB with the six monthly report:-

a. The project proponent shall conduct AAQ data (except monsoon) at 8 locations for PM_{10}, $PM_{2.5}$, SO_2, NO_X, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based on CPCB guidelines and take into account the pre dominant wind direction, population zone and sensitive receptors

including reserved forests. AAQ data should also include VOC, other process specific pollutants like NH3, Chlorine ,HCL, HBr, H2S, HF etc.

b. The project proponent shall conduct 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.

c. The project proponent shall monitor surface water quality of nearby River (60m upstream and downstream) and other surface drains at 8 locations as per CPCB/MoEF&CC guidelines.

d. The project proponent shall monitor the Ground water for heavy metals in addition to routine parameters pre-monsoon and post monsoon. Atleast 3 samples i.e one from within the premises and two from outside the premises of the project shall be taken.

e. The project proponent shall conduct Noise levels monitoring report at 8 locations within the study area.

f. The project proponent shall conduct Soil Characteristic as per CPCB guidelines.

g. The project proponent shall conduct 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.

Member Secretary

Endst. No._____ Through E-mail Date_____

A copy of the above is forwarded to the following for information & further necessary action please.

1. The Secretary to Govt. of India, Ministry of Environment and Forest, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-office Complex, East Arjun Nagar, New Delhi.
3. The Chairman, Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala.
4. The Chairman, Punjab State Power Corporation Ltd, the Mall, Patiala.
5. The Deputy Commissioner, SAS Nagar
6. The Deputy Director General (C), Ministry of Environment, Forests & Climate Change, Northern Regional Office, Bays No. 24-25, Sector- 31-A, Chandigarh.
7. The Chief Town Planner, Department of Town & Country Planning, 6th Floor, PUDA Bhawan, Phase-8, Mohali.
8. The Joint Director, Ministry of Environment and Forest, Northern Regional Office, Bays No.24-25, Sector–31-A, Chandigarh. The detail of the authorized Officer of the project proponent is as under:

   a) Name of the applicant : Mr. Parveen Goyal (Director)
   b) Phone Number : 9815995763

c) Email Id : sclbhagwanpura@gmail.com

9. Monitoring Cell, Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhavan, Jorbagh Road, New Delhi - 110003.

Member Secretary