


**STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY PUNJAB**

Ministry of Environment, Forest &amp; Climate Change, Government of India

O/o Directorate of Environment &amp; Climate Change

MGSIPA Complex, Sector 26,

Chandigarh-160019

seiaapb2017@gmail.com

No. SEIAA/MS/2021/3609 Registered/E-mail

Date: 09/03/2021

To

**Mr. Ved Prakash Gupta,**  
 M/s Indian Sucrose Ltd.,  
 G.T Road, Mukerian, Hoshiarpur- 144211  
 Mobile No. 91151-10501  
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**Subject: Environmental Clearance for expansion of an existing Sugar Mill Plant from capacity 5000 TCD to 12000 TCD along with co-generation power plant capacity from 19.5 MW to 40 MW at village Chak Alla Baksh and Mahiuldinpur Dalel, Tehsil Mukerian, District Hoshiarpur, Punjab by M/s Indian Sucrose Limited, G.T Road, Mukerian, Tehsil Mukerian, Distt. Hoshiarpur (Online Proposal No. SIA/PB/IND2/22643 /2018).**

This has reference to your online Proposal No. SIA/PB/IND2/22643 /2018) for obtaining Environment Clearance for expansion of an existing Sugar Mill Plant from capacity 5000 TCD to 12000 TCD along with co-generation power plant capacity from 19.5 MW to 40 MW at village Chak Alla Baksh and Mahiuldinpur Dalel, G.T Road, Mukerian Tehsil Mukerian, District Hoshiarpur, Punjab. As per EIA Notification, 14.09.2006 the project falls under B1 category, Activity 5(j) - Sugar Industry of schedule appended to the said notification. The proposal has been appraised as per procedure prescribed under the provisions of EIA Notification on the basis of the mandatory documents enclosed with the application viz., Form 2, revised EIA report submitted dated 29.08.2020 & 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: -

Sr. No.	Description	Details
1.	Name of the project	M/s Indian Sucrose Ltd.
2.	Online Proposal No.	SIA/PB/IND2/22643/2018
3.	Nature of project	EC for existing & proposed project
4.	a) Category b) Activity	a. B1 b. 5(j) Sugar Industry
5.	Whether the project falls in the critical polluted area	No
6.	Project Cost	Rs. 347 Crore

7.	Details of technology proposed					
	S.No	Details			Capacity	
	1	APCD			ESP of capacity 142m <sup>3</sup> / sec	
	2	STP			50 KLD	
3	Upgraded ETP with ZLD technology			3000 KLD		
8.	Co-ordinates					
	Point	Latitude		Longitude		
	A	31°55'40.357" N		75°37'13.668"E		
	B	31°55'42.288" N		75°37'18.500"E		
	C	31°55'43.868" N		75°37'32.417"E		
	D	31°55'46.081" N		75°37'37.553"E		
	E	31°55'46.114" N		75°37'47.296"E		
	F	31°55'34.951" N		75°37'47.122"E		
	G	31°55'31.661" N		75°37'37.297"E		
	H	31°55'36.520" N		75°37'24.140"E		
I	31°55'36.431" N		75°37'14.507"E			
9.	Manpower requirement	350 persons				
10.	Zoning as per Master Plan	Industrial use as per the CLU submitted				
11.	Raw Material Details:					
	S. No.	Particular	Existing	Proposed	Total	Source
	1.	Sugarcane in TCD	5000	7000	12000	From reserve area by tractor trolley/trucks.
		Chemicals				
	2.	Lime	10 TPD	15 TPD	25 TPD	From market
	3.	Sulphur	4 TPD	NR	NR	-
	<b>Fuel Requirement (TPD)</b>					
	4.	Bagasse (In season)	1400	1960	3360	From their own mill
	5.	Rice Husk (Off-season)	630	882	1512	From market
	6.	Paddy Straw (Off-season)	398	560	958	From market
7.	Wood Chips (Off-season)	200	280	480	From market	
8.	Maize Cobs (Off-season)	107	150	257	From market	
12.	Production Capacity Details	Enhancement of Production capacity from 5000 TCD to 12000 TCD of sugar mill and along with cogeneration power plant of capacity 19.5 MW to 40 MW				

13.	Details of major productive machinery/plant:				
	Sr. No.	Equipment's Machinery	/ Existing	Proposed	After Expansion
	1.	Boiler	160TPH (40 + 40 + 80)	200TPH (1 boiler)	200TPH (1 boiler)
	2.	DG sets	4 No. (Silent Type)	2 No. (Silent Type)	6 No. (Silent Type)
14.	Breakup of Water Requirements & its source in Operation Phase:				
	S. No	Description	Existing water demand (KLD)	Water demand after expansion (KLD)	
	1.	Domestic water demand	15 KLD	47 KLD	
	2.	Process water demand	453 KLD	550 KLD	
	Total		468 KLD	597 KLD	
	Source of water:				
	Sr. No.	Purposes	Source of water		
	1.	Domestic	Fresh water		
	2.	Make-up water demand for cooling	Recycled water		
	3.	Green area water demand	Recycled water		
15.	Details of Emissions (After expansion)				
	Sr No	Source	Capacity	Chimney Height (m)	Proposed Air Pollution Control Devices
	i)	Boiler	200	78	ESP
	ii)	DG sets	4045	6	Canopy
16.	Waste water generation & its disposal				
	Details	Total Quantity (KLD)	Disposal method		
	Industrial Effluent	2375	Treated water from upgraded ETP of capacity 3000 KLD to be reused for green belt development by Karnal Technology		
	Domestic Effluent	41	After treatment in STP will be used for Green Belt Development		
17.	Solid Waste Generation & its disposal				
	Details	Unit	Proposed Quantity	Disposal method	
	Press Mud	TPD	456	To be used as manure in farming	
	ETP Sludge	TPD	1.44	To be used as manure in farming	
	Molasses	TPH	22.5	Stored in 4 no. storage tanks of different capacities with total storage of 21000T & is being sold in market	
	Boiler ash	TPD	28.8	Provided to local farmers for usage as manure in farming	

18.	Rain Water Harvesting proposal	7 ponds outside the industrial premises adopted for total recharge of 66456 m <sup>3</sup> in villages Terkiana, New Terkiana, Baja Chak, Lamin, Behbowal, Ghaugra, Toe Makhowal for which an amount of Rs. 1.40 Crores will be spent. Further, 1 no. additional pond at Village Naraingarh adopted for additional recharge of 5160 m <sup>3</sup> for which amount of Rs. 20 Lakhs will be spent under remediation plan.
19.	Green Belt Development Plan	1. 7.79 ha greenbelt developed in which, 13300 Eucalyptus trees along with 600 trees of indigenous species like Neem, Peepal, Ashoka & Amla planted.  2. Additional 7700 trees will be planted as per following details:- (i) 7500 Eucalyptus trees in additional 7.19 Ha. land owned by the company for waste water utilization. (ii) 200 plants of Cassia Fistula (Amaltash), Neem, Peepal (Ficus religiosa), Ashoka & Plumeria alba (Champa) Amla (Phyllanthus emblica).
20.	Remediation Plan	Rs. 1.70 crores will be spent on the following activities: (i) 1.5 Crore will be spent on Upgradation of effluent treatment plant to ZLD technology (ii) Rs. 0.2 Crore will be spent on rejuvenation of pond located in the village Naraingarh.  Bank Guarantee of Rs. 1.7 Crore with the PPCB will be released after getting the physical verification of the compliances made by the project proponent through a field visit as per the MoEF&CC Notification dated 14.03.2017 as amended on 08.03.2018.
21.	Environment Management Plan (EMP)	Rs. 3.89 Crore will be spent as capital cost and Rs. 30 Lakh per annum as recurring cost will be spent towards the implementation of Environment Management Plan (EMP).
22.	CER Budget and Activities	Rs. 1.90 crore will be spent on the Corporate Environmental Responsibility (CER) activities.

The case was lastly considered by the SEAC in its 194<sup>th</sup> meeting held on 23.10.2020, wherein, 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 SEIAA in its 173<sup>rd</sup> meeting held on 30.10.2020 and lastly in its 176<sup>th</sup> meeting held on 19.02.2021, wherein SEIAA observed that the project proponent had submitted the receipt of the Bank Guarantee amounting to Rs.1.7 Crores with PPCB and receipt of balance amount of Rs. 12 lacs being the full and final payment with DFO Wildlife Hoshiarpur. 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

decided to accept the recommendations of SEAC and grant Environmental Clearance for expansion of existing Sugar Mill to enhance the capacity from 5000 TCD to 12,000 TCD along with co-generation power plant of capacity up to 40 MW in replacement of the existing 19.5 MW located in the revenue estates of village Chak Alla Baksh and Mahiuldinpur Dalel, G.T Road, Mukerian, Tehsil Mukerian, District Hoshiarpur, Punjab as per the details mentioned in the Form-2, final EIA report dated 29.08.2020, EMP, other documents & subsequent presentation /clarifications made by the project proponent and his consultant with conditions as proposed by SEAC and certain additional conditions.

Accordingly, SEIAA, Punjab hereby accords Environmental Clearance for the above project under the provisions of EIA Notification dated 14.09.2006, 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 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 I 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 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 concerned State pollution Control Board/ Committee.
- v. The project proponent shall obtain authorization under the Hazardous and other waste, Management Rules, 2016 as amended from time to time.
- vi. The Company shall strictly comply with the rules and guidelines under Manufacturer, 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 system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

- ii. The project proponent shall install system carryout to 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<sub>2</sub> and NO<sub>x</sub> in reference to SO<sub>2</sub> and NO<sub>x</sub> 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.
- iii. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- iv. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standard.
- v. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November, 2009 shall be complied with.
- vi. 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.
- vii. 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.
- viii. Storage of raw materials, coal etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.

### **III. Water quality monitoring and preservation**

- i. For 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 (applicable in case of the projects achieving ZLD) and connected to SPCB and CPCB on line servers.
- ii. Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD).
- iii. 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.
- iv. 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.
- v. Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CG WA in this regard.

- vi. Industrial/trade effluent shall be segregated into High COD/TDS and Low COD/TDS effluent streams. High TDS/COD shall be passed through stripper followed by MEE and ATFD (agitated thin film drier). Low TDS effluent stream shall be treated in ETP and then passed through RO system.
- vii. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.

**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 E(P)A 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.

**VI. Waste management**

- i. 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.
- ii. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge hazardous in nature, process inorganic & evaporation salt shall be disposed of to the TSDF. Further, industry proposed following mode of disposal as under:

Sr. No.	Type of Waste	Quantity (TPD)	Mode of Disposal
1	ETP Sludge	1.44	Will be used as Manure in Farming.
2	Press Mud	456	Will be used as Manure in Farming.
3	Boiler Ash	28.8	Will be used as Manure in Farming.

- iii. 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. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant. Greenbelt has been developed in more than 33% of the plot area, 7.79 Ha. in which, 13,300 Eucalyptus trees along with 600 other trees of indigenous species like Neem, Peepal, Ashoka & Amla have already been planted. Further, 7700 additional trees will be planted as per following details: -
  - a) 7500 Eucalyptus trees will be planted in additional 7 ha. land owned by the company for waste water utilization.
  - b) 200 plants of Cassia Fistula (Amaltash), Neem, Peepal (Ficus religiosa), Ashoka & Plumeria alba (Champa) Amla (Phyllanthus emblica) have been proposed for the green belt.

## **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 PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. 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.
- iv. 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.
- v. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vi. 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.

## **IX. Corporate Environment Responsibility**

- i. The project proponent shall comply with the provisions contained in this Ministry's OM dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility. Considering 1% of the proposed expansion cost, Rs. 1.90 crore will be spent for the following CER activities:



Sr. No.	Activities	Time Period	Budget (in Rs.)
1	Remodelling and Renovation work of Five ponds in five villages namely Terkiana, New Terkiana, Baja Chak, Lamin, Behbowal, Ghaugra, Toe Makhawal	3 Years	1.40 Crores
2	Construction of Toilets in Govt School of three villages namely Panjdhera Kalan, Khanpur, Maradpur Awana	3 Years	15 Lakhs
3	Providing Medical Amenities like Beds, Medicines and Ambulance in Govt Dispensary of Three villages namely Bhangala, Tanda Ram Sahai, Behbal Manj	3 Years	20 Lakhs
4	Development of Infrastructure facilities like Public Toilets, Solar Lights, Green area development in five villages namely Khanpur, Chak Alla Baksh, Bishanpur, Mahiuldinpur Dalel, Dugri Raj Puttan	3 Years	15 Lakhs
<b>Total (in crores)</b>		---	<b>1.90</b>

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

#### **X. Miscellaneous**

- i. 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.

- ii. 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.
- iii. 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.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO<sub>2</sub>, NO<sub>x</sub> (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.
- v. 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.
- vi. 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.
- vii. The project proponent shall inform the Regional Office as well as the Ministry, 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.
- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. 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 Expert Appraisal Committee.
- x. 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).
- xi. 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.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s)

of the Regional Office by furnishing the requisite data/ information/monitoring reports.

- xv. 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.
- xvi. 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 industry shall spend amount of Rs. 1.70 crore as per the remediation plan on the following activities:
- Upgradation of effluent treatment plant to ZLD – Rs. 1.50 crore.
  - Rejuvenation of pond of volume of additional 5160 m in Naraingarh village – Rs. 20 lakhs.
- ii. The industry shall adopt 7 no. ponds outside the industrial premises, with total amount of Rs. 1.40 Crores as per following details:

Sr. No	Particulars	Recharge Pond 1	Recharge Pond 2	Recharge Pond 3	Recharge Pond 4	Recharge Pond 5	Recharge Pond 6	Recharge Pond 7
1	Village	Terkiana	New Terkiana	Baja Chak	Lamin	Behbowal	Ghaugra	Toe Makhawal
2	Area (Acres)	3.0	3.5	1.5	2.3	0.75	0.81	0.25
3	Depth in meter	2.4	1.8	1.8	1.8	1.8	1.8	1.8
4	Total Volume m <sup>3</sup> meter	18,886	6798	9509	8631	3510	14570	4552
5	Sarpanch name	Ravinder Singh	Hari Ram	Harbhajan Lal	Jashveer Singh	Harcharan Singh	Tarlochan Singh	Avtar Singh
7	Expenditure	Rs. 22 lakhs	Rs. 26 lakhs	Rs. 20 lakhs	Rs. 25lakh	Rs. 17 lakhs	Rs. 18 Lakhs	Rs. 12 Lakhs

- iii. As proposed by industry, 2376 KLD treated waste water will be utilized as per the Karnal Technology in the existing plantation area of 7.79 Ha and additional plantation area of 7.19 Ha. for the development of green belt.
- iv. The industry shall spend amount of Rs. 3.89 Cr. towards the implementation of Environment Management Plan (EMP) as per the details given as under: -

Sr. No.	Particulars	Initial Cost (Crore)	Recurring Cost (Lakh)
1.	Air Pollution Control ESP/Wet Scrubber	0.95	5
<b>Remediation Plan</b>			
2.	Wastewater Treatment (ETP)	1.5	15

3.	Pond Adoption – Vill. Naraingarh	0.20	2
4.	Green Belt Development/ Solid Waste Disposal	1.24	8
	<b>Total</b>	<b>3.89</b>	<b>30</b>

- vi. The industry shall install Continuous Ambient Air Quality Monitoring Station (CAAQMS) to monitor the ambient air quality of the area and connect it with server of the Central Pollution Control Board and Punjab Pollution Control Board, within 2 months' time period.
- vii. The industry shall carry out the scientific study of the boiler ash & ETP sludge from the reputed institute to check the organic and inorganic contents and impact of the same on the agricultural land of nearby farmers and submit the compliance of the same with the six-monthly compliance report.

*o/e*  
**Member Secretary**  
 Date 09/03/2021 *D.S.*

**Endst. No. 3610-3617 Through E-mail**

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

- The Secretary to Govt. of India, Ministry of Environment and Forest, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi.
- The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-office Complex, East Arjun Nagar, New Delhi.
- The Chairman, Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala.
- The Chairman, Punjab State Power Corporation Ltd, the Mall, Patiala.
- The Deputy Commissioner, Hoshiarpur
- The Deputy Director General (C), Ministry of Environment, Forests & Climate Change, Northern Regional Office, Bays No. 24-25, Sector- 31-A, Chandigarh.
- 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:
  - Name of the applicant : Mr. Ved Prakash Gupta- VP
  - Phone Number : 91151-10501
  - Email Id : [info.isl@vaducorporation.com](mailto:info.isl@vaducorporation.com);  
[ved.gupta@vaducorporation.com](mailto:ved.gupta@vaducorporation.com)
- Monitoring Cell, Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi - 110003

*o/e*  
**Member Secretary**  
*D.S.*