

**Proceedings of the Public Hearing conducted on 28.09.2018 in connection with application filed by M/s A.B. Sugars Ltd., for obtaining environmental clearance under EIA Notification dated 14/9/2006 for expansion of the existing sugar mill from 7,000 TCD to 12,000 TCD and for co-generation power plant from 33 MW to 37 MW in the existing premises located in the revenue estate of Village-Randhawa, Tehsil-Dasuya, District-Hoshiarpur,**

The following were present to supervise the proceedings:-

1. Smt. Anupam Kaler, PCS,  
Addl. Deputy Commissioner (Gen),  
Hoshiarpur.
2. Sh. Parveen Saluja,  
Environmental Engineer (Mega)  
Punjab Pollution Control Board, Patiala.
3. Sh. Sukhwant Singh,  
Asstt. Environmental Engineer,  
Punjab Pollution Control Board,  
Regional Office, Hoshiarpur.

Environmental Engineer (Mega), Punjab Pollution Control Board, Patiala welcomed the Supervising-cum-Presiding Officer and people from adjoining towns/villages, who came to attend the public hearing of this project. He informed that an application was filed by M/s A.B. Sugars Ltd., with the State Environment Impact Assessment Authority (SEIAA), Punjab for getting Environmental Clearance under EIA notification no. 1533 (E) dated 14.9.2006 for expansion of the existing sugar mill from 7,000 TCD to 12,000 TCD and for co-generation power plant from 33 MW to 37 MW in the existing premises located in the revenue estate of Village-Randhawa, Tehsil-Dasuya, District-Hoshiarpur. After considering the application of the industry, the SEIAA, Punjab had issued 'Terms of Reference' to the industry for preparation of draft EIA study report. Now, the industry has submitted draft EIA report to the Punjab Pollution Control Board for conducting public hearing of the project as per the procedure prescribed in the EIA Notification dated 14.09.2006. Environmental Engineer (Mega) apprised the public present there about the

requirement of conducting the public hearing before deciding the application filed by the industry for getting the said clearance for the expansion of the project at the existing site. He also brought into the notice of public that a copy of the draft EIA report alongwith the executive summary of the same submitted by the industry to the Punjab Pollution Control Board was placed in the office of Deputy Commissioner, Hoshiarpur; Zila Parishad, Hoshiarpur; General Manager District Industrial Centre, Hoshiarpur; E.O., M.C. Dasuya, District Hoshiarpur; Regional Office of MoEF&CC at Chandigarh and Environmental Engineer, Regional Office, Punjab Pollution Control Board, Hoshiarpur for access to the public and other stakeholders. He further brought out that a notice of public hearing was published in three prominent newspapers namely, The Tribune, Jagbani and Spokesman on 29.08.2018 to make the public aware of the date, time & venue of the public hearing and about the places/offices, where the public could access the draft EIA report and its executive summary report before the said hearing. Thereafter, he requested the representative of the project proponent and Environmental Consultant of industry to elaborate about the main features of the project and the draft EIA study report to the public.

Sh. Gurdev Singh, representative of industry and Sh. Parveen Bhargav of M/s Perfect Enviro Solutions Pvt. Ltd., Environmental consultant of the project proponent brought out the details of the project before the public as under:-

### **1.0 Introduction**

- M/s A B. Sugars Limited (ABSL) is a private sector company with varied businesses. ABSL, formerly known as Guru Teg Bahadur Sugars Ltd., was taken over by Chadda group in the year 1997, having its Sugar plant at Village-Randhawa Tehsil Dasuya, Hoshiarpur District in Punjab.
- The existing industry mainly produce Sugar from Sugarcane of different grades and produce 33 MW power from burning of bagasse waste. The proposed project is expansion of Sugar Plant from capacity 7000 TCD to 12000 TCD and Cogeneration Power plant from 33 MW to 37 MW at Village- Randhawa, Tehsil – Dasuya, District- Hoshiarpur, Punjab by M/s A.B. Sugars Limited. The project has

already got environmental clearance vide letter no J-11011/764/2007-IA. II (I) dated 03.06.2010 for the capacity of 7000 TCD and cogeneration power plant of 10 MW and 23 MW. The unit has valid consent to operate from Punjab Pollution Control Board (PPCB) vide consent order no. R14HSPCTOW1408673 valid up to 30.03.2019 and is fully compliant and committed.

- Now, the unit wishes to expand the capacity of the plant as per the local requirement from 7,000 TCD to 12,000 TCD and Co-generation power plant from 33MW to 37MW. As the project have primary activity Sugar production, therefore as per EIA Notification, 2006, the project falls under Scheduled 5(j) and Category B. SEIAA/SEAC Punjab has accorded Terms of Reference (TOR) for the proposed project vide TOR number., SEIAA/2018/452 dated 09.04.2018.

## 2.0 Project Description

DETAILS	EXISTING	PROPOSED	AFTER EXPANSION
Activity	Sugar Manufacturing Unit and Co-generation power plant		
Plot Area (sqm)	6,87,966 sqm (170 Acres)	-	6,87,966 sqm (170 Acres)
	Sugar Plant Area- 59 acre	-	Sugar Plant Area- 59 acre
Production Capacity	Sugar - 7000 TCD	Sugar - 5000 TCD	Sugar - 12,000 TCD
	Co-generation power plant - 33 MW	Co-generation power plant - 4 MW	Co-generation power plant - 37 MW
Estimated Cost	208 Crore	170 Crore	378 Crore
Employment	217	33	250
Power Requirement	9000 KW	4500 KW	13500 KW
DG Sets	1 x 500 KVA and 1 x 725 KVA	-	1 x 500 KVA and 1 x 725 KVA
Boiler	80 TPH and 120 TPH	2 X 32 TPH	80 TPH, 120 TPH & 2 x 32 TPH

### 3.0 Product

#### 3.1 SUGAR

S. No	PRODUCT	Existing Qty. (Tonnes/day)	Proposed Qty. (Tonnes/day)	After Expansion (Tonnes/day)
1	L Quality Sugar (31)	77	55	132
2	M Quality Sugar (31)	616	440	1056
3	S Quality Sugar (31)	77	55	132
	<b>Total</b>	<b>770</b>	<b>550</b>	<b>1320</b>

#### 3.2 Co- Generation Power Plant

S. No	PRODUCT	Existing	Proposed	After Expansion
1.	Selling Power	23 MW	-	23 MW
	Captive Power	10 MW	4 MW	14 MW
	<b>Total Power Generation</b>	<b>33 MW</b>	<b>4 MW</b>	<b>37 MW</b>

#### 4.0 Raw Material

S.NO	RAW MATERIAL	DAILY CONSUMPTION (Existing)	DAILY CONSUMPTION (Proposed)	DAILY CONSUMPTION (After Expansion)
1	Lime	10.5 MT	7.5 MT	18 MT
2	Sulphur	4.2 MT	5 MT	7.2 MT
3	Biocide	70 kg/day	50 kg/day	120 kg/day
4	Magnafloc	21 kg/day	15 kg/day	36 kg/day
5	Phosphoric Acid	35 kg/day	25 kg/day	60 kg/day
6	Colour Precipitation	100 kg/day	70 kg/day	170 kg/day
7	Sugarcane	7,000 TCD	5,000 TCD	12,000 TCD

### 5.0 Water Management

#### 5.1 Water Requirement

<b>Sr. No.</b>	<b>Description</b>	<b>Existing (KLD)</b>	<b>Proposed (KLD)</b>	<b>Total</b>
1.	For process / boiler / cogeneration	2798	2418	5216
2.	Cooling Tower	1834	878	2712
3.	Domestic usage	135	-	135
4.	Gardening	1508	1000	2508
<b>Total</b>		6275	4296	10571

## 5.2 Waste Water Generation

<b>Sr. No.</b>	<b>Description</b>	<b>Quantum of effluent (KLD)</b>		
		<b>Existing (KLD)</b>	<b>Proposed (KLD)</b>	<b>Total</b>
1.	For process / boiler / cogeneration	1660 (Process)+ 90 (Boiler)	1302 (Process) + 64 (Boiler)	2962 (Process) + 154 (Boiler)
2.	Cooling tower	Nil	Nil	Nil
3.	Domestic	120	0	120
4.	Gardening	Nil	Nil	Nil
Total trade effluent		1750	1366	3116
Total quantity of sewage		120	-	120
Total quantity of wastewater		1870 KLD	1366 KLD	3266 KLD

## 6.0 Rain Water Harvesting Plan

### 6.1 Rain water generation

<b>Description</b>	<b>Area (sqm)</b>	<b>Rain fall in Meter</b>	<b>Run off Coefficient</b>	<b>Total in m3</b>
Roof top area of building/sheds	38148	0.1	0.9	343.33
Road and Paved area	16820	0.1	0.7	117.74
Open Area – Plantation / Landscaping/Plantation Area	509973	0.1	0.2	1019.94
<b>Total</b>	<b>564941 sqm</b>			<b>1481.01 m3</b>

In existing unit 3 No. of harvesting pit are provided to recharge 589.32 KL and 5 No. of harvesting pits are provided to recharge 915.67 KL of water. Thus, total 1481 KL water shall be recharged.

## 7.0 Solid Waste Management

### 7.1 Municipal Waste Management

Category	Type of Waste	Color of Bins	Disposal Method	Existing Waste (Kg/day)	Proposed Waste (Kg/day)	Total after Expansion (Kg/day)
Bio Degradable	Organic Waste (Includes Food & Kitchen Waste, Leaves etc.)	Green	MSW site	24	4	28
Non-Biodegradable	Recyclable Waste (Includes Poly-bags, Plastic, metal, wood, paper, glass, containers etc.)	Blue	Authorized recycler	10	2	12
-	Total	-	-	34 Kg/day	6 Kg/day	40 Kg/day

### 7.2 Hazardous Waste Management

Name of Process	Name of Process Waste	Disposal Method	Existing Quantity	Proposed Quantity	Quantity after Expansion
Industrial operations using mineral / synthetic oil as lubricant in hydraulic systems (Schedule I)	Used/spent oil	Disposed to authorized common collection centre provided the oil meets the standards as per schedule -5 Part A rule	15 litre/month	-	15 litre/month

Purification and treatment of exhaust air, water and waste water from the processes in this schedule and CETPs(Schedule I)	Chemical sludge from waste water treatment	It shall be stored in secured manner and sent to authorized TSDf site.	1100 Kg/day	900 Kg/day	2000 Kg/day
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### 7.3 Process Waste Management (Non-Hazardous Waste)

Process Waste	Existing (Tonnes/day)	Proposed (Tonnes/day)	Total after expansion (Tonnes/day)	Disposal Method
Bagasse	1960	1400	3360	Used as fuel in Boiler for producing Steam.
Ash Content	29	21	50	Ash is being disposed off within the site. 7-acre area has been allocated for disposal of ash in the premises.
Molasses	315	225	540	Used in existing Distillery for Alcohol Production present in the premises.
Press Mud/Filter Cake	294	210	504	It shall be sold out to the farmers and brick manufactures. It shall not be kept in the premises.

### 8.0 Air Emission Management

#### 8.1 Existing:

SL No.	Existing Air pollution sources	Type of fuel	Fuel Qty	Pollution control measures	Chimney height AGL
1.	80 TPH Boiler	Bagasse	37 TPH	Stack, Wet Scrubber & ESP	Height - 50 Mts stack AGL Dia – 2.0 m
2.	120 TPH Boiler	Bagasse	47 TPH	Stack, Wet Scrubber & ESP	Height - 65 Mts stack AGL Dia – 2.5 m

<b>3.</b>	500 KVA DG SET	HSD	100 L/Hr	Stack, acoustic enclosures	6 Mts stack AGL
<b>4.</b>	725 KVA DG SET	HSD	150 L/Hr	Stack, acoustic enclosures	6 Mts stack AGL

### 8.2 Proposed:

<b>SL No.</b>	<b>Proposed</b>	<b>Type of fuel</b>	<b>Fuel Qty</b>	<b>Pollution control measures</b>	<b>Chimney height AGL</b>
1.	2 x 32 TPH Boiler	Bagasse	30 TPH	Stack, Wet Scrubber	Height - 50 Mts stack AGL Dia – 2.0 m

### 9.0 Noise Management

To reduce Ambient Noise level the following measures will be adopted:-

- Existing DG set has been bought acoustically enclosed & placed inside a acoustically treated room as per CPCB guidelines & same shall be done for proposed D.G. set.
- Noise generating units like machinery area, canteen etc. are well insulated with enclosed doors. Earmuffs are being used while running equipment of the Industry.
- Maintenance of vehicles and machinery is being done in a sustainable manner to ensure best performance and less loss.
- Vehicle and people flow during shift changes is being regulated by allowing exits in a phased manner.



- The green belt help in reducing noise levels in the complex as a result of attenuation of noise generated due to plant operations and transportation. Total green area in existing industry is 11.51 ha.

## **10.0 Green Belt Development**

- Green belt planning has been done as per guidelines laid by CPCB, with ecological perspectives availability of space and other aspects has been considered. Proposed green area will be 55 acre (33% of total plot area). 37800 trees have already been planted.
- Green belt/greenery has been developed along most of the periphery of the project area as well as along roads having tree, shrubs, and other ornamental plants

## **11.0 Anticipated Impact and Mitigation and Environment Management Plan**

### **11.1 Ambient Air**

- Vehicles used in transportation of machineries will be kept fully covered & have PUC certificate. Provision for sprinkling water will be made to reduce dust emissions during the installation phase.
- The major source of air pollutants in the plant during operation phase is Boiler and DG Sets. 120 TPH and 80 TPH boiler installed with ESP and wet scrubber with proper stack height as per CPCB norms. Same shall be done for the proposed Boilers of capacity 2x32 TPH. The fuel in the boiler is bagasse which contains very less amount of Nox and Sox. DG sets of capacity 1x750 KVA & 1 x 500 KVA has been installed with 6m stack height above the shed height.
- Ash generated from the Boiler is being transported to disposal site after sprinkling of ash with water in order to suppress the ash and avoid air emission.

## **11.2 Odour Control**

- To avoid odour of press mud, it will be directly send to the brick manufactures & farmers without storing in the premises. Green development is done within the plant premises.

## **11.3 Water Environment**

- 2 KLD of water will be required during construction phase which shall be fulfilled from existing Borewell supply. During operation phase, the existing water consumption is around 6275 KLD and after expansion it is estimated as 10571 KLD. In existing unit, the present total waste water generation from Unit is 1870 KLD including 120 KLD of domestic waste water.
- Process water is being treated ETP of 3500 KLD & domestic waste waters in STP of 250 KLD. After expansion, total waste water generation will be 3236 KLD including 120 KLD of domestic waste water. The capacity of STP & ETP will remain the same as it will suffice for the treatment of increased waste water.
- Ground water is being abstracted. Water level in the area is 20-25m. 3 no. of rainwater harvesting pit are already installed to recharge the ground water and 5 no. of rainwater harvesting are proposed. Water content from cane and treated water from treatment facility is being used to reduce fresh water requirement.

## **11.4 Land / Soil**

- This is expansion of existing Sugar Plant on the same plot area i.e.,6,87,966 sqm or 170. The land use of the area is already being changed to industrial unit. Therefore, there will be no further change in existing Land use. Ash generated from the Boiler is being disposed to the 7-acre allocated land for safe disposal. The ash content in Bagasse is less than 2%. Due to high potash content in the Bagasse ash suits its use as good manure, so there is no adverse effect on the land

## **11.5 Noise Levels**

- Regular checking of vehicles, construction/installation work is restricted during day time. Vehicles will be allowed in the unit during day time and will have a defined

track which would have restricted movement of workers. DG sets of 1 x 500 KVA & 1 x 725 KVA have been installed acoustically enclose. Areas of high machinery operation will be having enclosures and ear-muffs. Regular maintenance of machinery will be done.

### **11.6 Solid Waste**

- Waste generated during the construction phase will be domestic only which will be disposed to MSW site. During operation phase after expansion, 24 kg/day biodegradable waste will be generated which will be treated in vermicomposting. 4 kg/day of recyclable waste will be generated which will be given to approved recycler.
- Bagasse generated of 3360 Tons/day (Existing: 1960 Tons/day & Proposed: 1400 Tons/day) is being used as fuel in the boiler for producing steam and same shall be done after proposed expansion to generate more steam required for the process and power generation.
- Molasses generated of 540 Tons/day (Existing: 315 Tons/day & Proposed: 225 Tons/day) from clarification process is being used in distillery for alcohol production present in the premises. Molasses acts as a raw material for ethanol production.
- After expansion, press mud generated 504 Tons/day (Existing: 294 Tons/day & Proposed: 210 Tons/day) shall be given to the farmers and brick manufacturers.
- Approximately 2000 Kg/day (Existing: 1100Kg/day and Proposed: 900 Kg/day) of ETP sludge shall be generated after expansion. It shall be sent to authorized TSDF.

### **11.7 Flora and fauna**

- The green area in the plot is 55 acres (32.3%). Green belt has already been developed at the periphery land same shall be maintain after expansion.
- The project will not displace any fauna. There are no toxic releases from the plant. Emissions from Boiler are being channeled to ESP, wet scrubber and adequate stack height to control the fugitive emission. Raw material is being

transported in closed trucks and the finished product shall be used in the adjacent plant of the complex. There will be no discharge of wastewater on any existing water body or land.

### **11.8 Socio-economic environment**

- There will be no displacement or immigration of the human population due to the proposed project. Positive impact due to Increase in employment as it will lead to better economic condition of people in the area. Due to less distance from the farms they will get good price of cane and will get press mud to be used as nutrients on farms. There will be overall development of the area. Waste of Sugar cane i.e., Bagasse will be used for power generation, which will directly benefit to the state. Power shortage is crucial issue in the nearby area, 20 MW of the power generated is being sell out.

### **12.0 Corporate Social Responsibility**

- As per CER office memorandum of MOEF dated 1.5.2018, the project cost for expansion part is Rs 170 Cr, hence the industry has to spend 0.75% of the cost of expansion (Rs.1.27 Crores) on CER activities. However, as per condition of TOR, company will spend 2% of project cost on Enterprise Social Commitment (ESR).

### **13.0 Cost of Environment Plan**

- The cost of project is estimated to be about Rs. 170 crores. The company has already spent Rs. 372 lacs and proposed cost is. Rs.57.0 lacs of capital cost towards EMP. The recurring cost after expansion will be Rs. 67.0 lacs/year on Environment Management Plan. The breakup of the EMP budget is under:-

<b>Capital Expenditure in Lakhs</b>				
<b>Sr. No.</b>	<b>Particulars</b>	<b>Existing Unit (Lacs)</b>	<b>Proposed Unit (Lacs)</b>	<b>Total After Expansion (Lacs)</b>
1	Plant & Machinery (APCM)	355	50	405
2	Solid Waste management	5	2	7

3	Landscaping / plantation	12	5	17
	<b>Total</b>	<b>372 Lacs</b>	<b>57 Lacs</b>	<b>429 lacs</b>
<b>Recurring Expenditure in lakhs per annum</b>				
<b>Sr. No.</b>	<b>Particulars</b>	<b>Existing Unit</b>	<b>Proposed Unit</b>	<b>After Expansion</b>
1	Operation and Maintenance of pollution control equipments	50	5	55
2	Air & water quality monitoring	2	2	4
3	Solid Waste management	2	1	3
4	Landscaping / plantation	3	2	5
	<b>Total</b>	<b>57 lacs</b>	<b>10 lacs</b>	<b>67 lacs</b>

#### 14.0 Project Benefits

1. Due to less distance from the farms they will get good price of cane and will get press mud to be used as nutrients on farms
2. Waste of Sugar cane i.e., Bagasse will be used for power generation, which will directly benefit to the state. Bagasse based cogeneration conserves fossil fuels and is eco-friendly as pollutants are negligible
3. Molasses waste from process will be used in the production of Alcohol.
4. Power shortage is crucial issue in the nearby area, 20 MW of the power generated is being sell out.
5. After expansion additional employment opportunities will lead to a rise in the income and improve standard of living. The expansion of existing industry would also generate jobs for the labours during construction phase as well as during operation phase. It will provide direct and indirect employment to local youth
6. Sugar manufacturing Industry is a large and growing domestic market. There will be economic benefit due to selling of products all over India. After expansion the increased demand of customers shall be fulfilled.
7. The unit is Zero liquid discharge which will be maintained after expansion also.

Thereafter, Environmental Engineer brought into the notice of public present at the venue of hearing that as per the provisions of EIA notification dated 14.09.2006, as amended from time to time, the persons present at the venue may seek any information or clarifications on the proposed project from the project promoter. It was also brought into the notice of the persons present there that the information or clarifications sought by them and reply given by the project proponent will be recorded in the proceedings of the hearing, which will be sent to the SEIAA, Punjab for further consideration. Accordingly, he requested the persons present in the hearing to seek information or clarifications on the project one by one. He also informed that no information / clarifications / comments / views / suggestions / objections on the project have been received from the public in writing by the Board, so far.

Thereupon, the detail of the information/ clarifications sought by the persons present at the venue of hearing and the reply given by the project proponent is as under:

<b>Sr. No.</b>	<b>Name &amp; address of the person</b>	<b>Detail of query/ statement / information / clarification sought by the person present</b>	<b>Reply of the query / statement / information / clarification given by the project proponent</b>
1.	Sh. Satpal Singh, r/o Village Hira, Block Dasuya, District Hoshiarpur	1. He congratulates the owners of the sugar mill, who proposed to expand the capacity of the sugar mill. With the expansion of the project, employment opportunities will be generated. He demanded that the employment will be given to the local people.	1. Representative of the Sugar Mill informed that the local people have been provided employment in the existing sugar mill as per their qualification. He further informed that the preference will be given to the local people in the employment in

		<p>2. With the expansion of the project, there will be more traffic on the road, which should be taken care by the project proponents.</p>	<p>expansion project also.</p> <p>2. There will be no traffic problem as the unit has enough space inside the premises and the vehicles will only be allowed to park inside the industrial premises.</p> <p>Environmental Engineer (Mega) clarified that as part of EIA report, the project proponent must have analysed the impacts on air quality of the area due to activities of the project which includes transportation of raw material and products.</p> <p>Environmental Consultant of the project proponent informed that they already analysed this aspect and have been incorporated in the draft EIA study report.</p>
<p>2.</p>	<p>Sh.Iqbal Singh, r/o Vilage Johal, Block Dasuya, District Hoshiarpur</p>	<p>He stated that capacity of the sugar mill is being increased from 7000 TCD to 12,000 TCD, which is good for the area and by which local people will got employment. He further stated that</p>	<p>Representative of the Sugar Mill informed that all the pollution control measures will be implemented in letter &amp; spirit which are explained by the</p>

		whatever explained by the environmental consultant of the company this stage, should be implemented in letter & spirit. The area shall be developed with the establishment of the industry.	environmental consultant by which nearby local people will also benefitted.
3.	Sh. Mohinder Singh, r/o Village Sangla, Block Dasuya, District Hoshiarpur	He stated that the boiler dust is generated from the existing project of the industry. He apprehended that whether the quantity of the boiler dust will be increased with the expansion of the project.	Representative & environmental consultant of the Sugar Mill informed that ESP with wet scrubber will be installed as air pollution control system on the boilers to control the dust and there will be no problem from the boiler dust.
4.	Sh. Narinder Singh, r/o Village Usman Shaheeda, Block Dasuya, District Hoshiarpur	He stated that the press mud will be generated from the project by which there will be odour problem. What mitigation measures will be taken to control the same?	Representative of the Sugar Mill informed that earlier bio-composting was being carried out for the treatment of press mud by which there was some odour problem. Now, press mud is being given to the brick manufacturing companies, the farmers free of cost and there is few quantity is lying with the project. The spent wash from the distillery will be taken into multiple effect evaporator and it will be converted into high chlorofic slurry which will be used in boiler



			as fuel. Therefore, there will be no odour problem from the project.
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Environmental Engineer (Mega), Punjab Pollution Control Board, Patiala further requested the persons present at the venue of hearing that if anyone else wants to seek any information/ clarification on the proposed expansion project, but no one came forward. After that people were asked to raise their hands who are in favour of this proposed expansion project and most of the people present raised hands in favor of the project. This public hearing was attended by 111 persons.

The hearing ended with vote of thanks to the Supervisor-Cum-Presiding Officer and the public present in the hearing.

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**(Parveen Kumar Saluja)**  
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