

State Level Environment Impact Assessment Authority, Uttar Pradesh

Directorate of Environment, U.P.

Vineet Khand-1, Gomti Nagar, Lucknow - 226 010

Phone : 91-522-2300 541, Fax : 91-522-2300 543

E-mail : doeuplko@yahoo.com

Website : www.seiaaup.in, www.seiaaup.com

To,

Shri Dhan Singh,
Vice president,
M/s Dhampur Sugar Mills Ltd,
DSM Sugar Rajpura,
Village & post- Rajpura, Tehsil- Gunnaur,
District- Sambhal- 243727.

Ref. No. 1.7.63/Parya/SEAC/1572/2013/ AD(H)

Date: // November, 2014

Sub: Environmental Clearance for Expansion of Existing Sugar Unit from 7000 TCD-9000 TCD and power 40 MW (based on 60% Bagasse + Coal as fuel), Dhampur Sugar Mills Ltd., Dhampur, Railway Road, Tehsil-Dhampur, Distt-Bijnor.Regarding.

Dear Sir,

Please refer to your application/letters dated 22-04-2013 & 21-07-2014 addressed to the Secretary, SEAC and Director, Directorate of Environment Govt. of UP on the subject as above. A presentation was made by the representative of the project proponent along with their consultant M/s Sawen Consultancy Services Pvt. Ltd. of the project in State Level Expert Appraisal Committee (SEAC) meeting dated 27-09-2014.

The Project proponent, through documents (submitted to SEAC) and presentation made during meeting, has informed to the SEAC that:-

1. The environmental clearance is sought for proposed Expansion of Existing Sugar Unit from 7000 TCD-9000 TCD and power 40 MW (based on 60% Bagasse + Coal as fuel), Dhampur Sugar Mills Ltd., Dhampur, Railway Road, Tehsil-Dhampur, Distt-Bijnor.
2. Salient features of the project are proposed as follows:

	Project	Proposed Expansion of Existing Plant
1	Location	Rajpura, SAMBHAL (U.P.)
2	Promoters	M/s Dhampur sugar Mills Ltd
3	Present plant capacity	7000 TCD
4	Proposed Expansion	From 7000 TCD to 9000 TCD
5	Proposed Power Generation	40MW Power Plant.
6	Proposed Boiler capacity	1 X 120 TPH(1 Nos) + 1X 70 TPH (1 Nos) Duel fuel fired sub critical boiler.
8	Fuel consumption	Bagasse: 1100 MT/Day, Coal: 480 MT/Day
9	Source of fuel	Bagasse- from own unit,Coal-Indigenous
10	Ash generation	120 TPD
11	Air Pollution Control devices	Electro Static Precipitator (Proposed) Wet Scrubber (Existing)
12	Stack height	72 Meter of Proposed (1 Nos) 60 Meter existing(1 Nos)
13	Green Belt Development	33 % of Total Project Area
14	Water Consumption	Season: 6300 M /Day for Sugar & power plant. Off Season: 1500 M /Day for 40 MW power Plant only
15	Waste water treatment system	Activated sludge process (existing ETP will be modified to 10000 TCD)
16	Cost Towards Environmental Protection	365 Lakhs
17	Raw Material	Sugar Cane (10000 TCD)
18	Estimated Project Cost	Sugar expansion- 33.95 Crore Power Plant- 131.00 crore

19	Cost Towards CSR Activities	329 Lakhs @2 % of Total Project Cost
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3. Water requirement of the project is as follows:

	PROCESS	QUANTITY
(a)	Industrial process makeup water	2709 m ³ /day
(b)	Cooling makeup water	3137m ³ /day
(c)	Boiler makeup water	403 m ³ /day
(d)	Floor Washing	55 m ³ /day
	TOTAL CONSUMPTION	6304 m³ /day
	Domestic Water Uses	80 m ³ /day

- Existing water requirement before expansion on 7000 TCD plant is 7000 KL per day after expansion consumption only 6300 KL/day (@ 0.7 KL/T of Cane) on 9000 TCD.
- No additional extraction of water is proposed. extract addition water for expansion project so permission from CGWA is not required.

4. Water management plan of the proposed project are as follows:

1.	HOT WATER BALANCE	
(A)	PRODUCTION OF HOT WATER	
	➤ RAW JUICE 1 ST HEATING AT VLJH	8.67 M ³ /HR
	➤ RAW JUICE 2 ND HEATING	12.08 M ³ /HR
	➤ SULPHITED JUICE 1 ST HEATING	10.19 M ³ /HR
	➤ SULPHITED JUICE 2 ND HEATING	10.19 M ³ /HR
	➤ CLEAR JUICE HEATING	10.24 M ³ /HR
	➤ DOUBLE EFFECT VC-1	85.56 M ³ /HR
	➤ DOUBLE EFFECT VC-2	66.44 M ³ /HR
	➤ QUAD 1 ST BODY	29.22 M ³ /HR
	➤ QUAD 2 ND BODY	29.22 M ³ /HR
	➤ QUAD 3 RD BODY	16.19 M ³ /HR
	➤ QUAD 4 TH BODY	16.19 M ³ /HR
	➤ QUAD 5 TH BODY	7.98 M ³ /HR
	➤ A & B PAN	52.9 M ³ /HR
	➤ C PAN	11.55 M ³ /HR
	TOTAL AVAILABLE HOT WATER	366.62 M ³ /HR
(B)	CONSUMPTION OF HOT WATER	
	➤ BOILER FEED WATER INCLUDING LOSSES (55%+10%)	170.9 M ³ /HR
	➤ DESUPER HEATING OF LIVE & EXHAUST STEAM 5% ON CANE	13.12 M ³ /HR
	➤ JUICE FILTRATION (VAC. FILTERS) 5% ON CANE	13.12 M ³ /HR
	➤ PAN BOILING AND MOLASES CONDITIONING 5.5% ON CANE	14.43 M ³ /HR
	➤ CENTRIFUGAL MACHINES 4% ON CANE	10.58 M ³ /HR
	➤ MILK OF LIME PREPARATION 2% OF CANE	5.3 M ³ /HR
	➤ MILL SANITATION 2% ON CANE	5.29 M ³ /HR
	➤ IMBIBITIONS PURPOSE 42% ON CANE	110.25 M ³ /HR
	➤ MAGMA MIXER, SUGAR MITER 4.5% ON CANE	11.81 M ³ /HR
	TOTAL CONSUMPTION OF WATER	354.8 M ³ /HR
	SURPLUS HOT WATER 863.11 – 843.76	11.82 M ³ /HR
	BOILER BLOW DOWN LOSSES 6% ON CANE	22 M ³ /HR
	TOTAL DRAIN OUT WATER (IT MAY BE THROWN TO SPRAY POND)	33.8 M ³ /HR
	COLD WATER BALANCE	

Sl. No.	UNIT	ESTIMATED RATE WATER REQUIREMENT	TOTAL REQUIREMENT	WATER RECLAIMED
1.	MILL BEARING	60.0 M ³ /HR	37.8 M ³ /HR	37.8 M ³ /HR
2.	POWER HOUSE	335 M ³ /HR	211.05 M ³ /HR	211.05 M ³ /HR
3.	D.G. SET/Other uses	5.4 M ³ /HR	3.41M ³ /HR	3.41M ³ /HR
4.	SULPHUR FURNANCE	1.7 M ³ /HR	8.38M ³ /HR	8.38M ³ /HR
5.	AIR COMPRESSOR	2.4 M ³ /HR	11.78M ³ /HR	11.78M ³ /HR
6.	N VACUUM FILTERS	13.4 M ³ /HR	126M ³ /HR	SPRAY
7.	VACUUM PUMPS	6.6 M ³ /HR	16.38M ³ /HR	16.38M ³ /HR
8.	CRYSTALLIZER	12.45 M ³ /HR	7.84M ³ /HR	7.84M ³ /HR
9.	CENTRIFUGAL PUMP GRAND COOLING	5.4 M ³ /HR	3.4M ³ /HR	3.4M ³ /HR
10.	MAKE UP WATER FOR CONDENSING SYSTEM 5% OF TOTAL SPRAY CAP.		131.17	LOST
11.	SANITATION & HOUSE HOLD REQUIREMENT	3.3 M ³ /HR	2.08M ³ /HR	LOST
12.	CLEANING, WASHING, MISC. USES	3.3 M ³ /HR	2.08M ³ /HR	DRAINED OUT
	TOTAL WATER REQUIREMENT		561.37M ³ /HR	300.04 M ³ /HR

Water Calculation :

561.37– 300.04 = 261.33m³/Hr

Total Water Requirement=262 M³/Hr X 24=6288 M³/Day (Say 6300 M³/Day)

Cold Water Drain Out = 3.4 M³/Hr

Total Hot & Cold Water Drained Out :

34.0 + 3.4 = 37.4 M³/Hr

37.4 X 24 = 897.6 M³/Day ≈ 900m³/Day (Waste Water Generation)

Conclusion: The Load On Etp Shall Be Approximately 900 M³/Day

(@ 0.1 KI/T Of Cane)

5. The raw water supply for the Power Plant will be from the existing raw water system with primary source being bore wells. The existing underground water tank will be common for the sugar and Power Plant operations. The design of the water treatment system will be based on the water analysis. Additional 1 – borewell have been planned.
6. 04 Rain water harvesting pits are proposed for rooftop rain water harvesting.
7. 33% of total land shall be developed as green belt. Approximately about 1000 plants /acres will be planted.
8. The electrostatic precipitator of suitable capacity shall be designed so that the dust emission at the outlet of the chimney should be limited to 150mg/NM³ or as prescribed by State Pollution Control Board.
9. One number of stack with height 72 m is proposed which will be attached with proposed boiler of 120 TPH and Existing stack of Height 60 meters will be attached with 70 TPH boiler.
10. Reuse of used oil in lubrication of other equipment and will be sold to authorized recyclers.
11. Fly ash generated from ESP will be used entirely in the cement manufacturing process, Bottom Fly ash and Ash from Wet Scrubber will be utilize as Manure, in Land Filling and also used in manufacturing of briquettes.
12. The project proposals are covered under category 5"j" and 1"d" of EIA Notification, 2006.

Based on the recommendations of the State Level Expert Appraisal Committee Meeting (SEAC) held on 27-09-2014 the State Level Environment Impact Assessment Authority (SEIAA) in its Meeting held on 30-10-2014 decided to grant the Environmental Clearance to the project for the proposals of Expansion of Existing Sugar Unit from 7000 TCD-9000 TCD and power 40 MW (based on 60% Bagasse + Coal as fuel), Dhampur Sugar Mills Ltd., Dhampur to the effective implementation of the following general and specific conditions:-

General Conditions:

1. The project authorities must strictly adhere to the stipulations made by the Uttar Pradesh State Pollution Control Board and the State Government.

2. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, UP.
3. The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.
4. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM₁₀, PM_{2.5}, SO₂ and NO_x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to UPPCB/CPCB and Regional Office, of MoEF at Lucknow once in six months.
5. Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be recycled in the plant and there shall not be any discharge of industrial waste water as committed by the project proponent during the presentation.
6. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night times).
7. Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.
8. The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
9. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.
10. As proposed, budget shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of MoEF at Lucknow. The funds so provided shall not be diverted for any other purpose.
11. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.
12. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF at Lucknow, CPCB and UPPCB. The criteria pollutant levels namely; PM₁₀, PM_{2.5}, SO₂, NO_x (ambient levels as well as stack emissions) for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
13. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF, CPCB and UPPCB. The Regional Office of MoEF at Lucknow / CPCB / SPCB shall monitor the stipulated conditions.
14. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the Regional Office of the MoEF at Lucknow.
15. The Project Proponent shall inform the public that the project has been accorded Environmental Clearance by the SEIAAUP and copies of the clearance letter are available with the SPCB and may also be seen at Website of the SEIAAUP at seiaaup.com. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that

are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Lucknow.

16. Project authorities shall inform the Regional Office of MoEF, Lucknow as well as the SEIAA the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.

Specific Conditions

1. Old boilers shall be dismantled as mentioned during the presentation. Only new boiler shall be functional after its erection.
2. SEIAA and UPPCB should be informed about erection of new boiler.
3. Undertaking from project proponent that no additional water shall be used should be submitted.
4. Zero discharge shall be practiced regarding water effluents.
5. Comprehensive EIA shall be undertaken after commissioning of proposed activities and report submitted to SEIAA and UPPCB within a year.
6. Agreement with cement industries for utilization of fly ash shall be made.
7. Conditions of authorization granted by UPPCB shall be duly followed.
8. CSR Plan with Rs. 3.50 crore shall be prepared and submitted.
9. No polythene use shall be permitted in plan premises.
10. Online stack monitoring as per CPCB norms shall be followed.
11. An environment monitoring cell shall be constituted for day to day testing/monitoring of environmental parameters.
12. Filter press should be installed to handle the sludge.
13. Two continuous ambient Air Quality Monitoring Station one in up wind and other in predominant wind direction shall be installed immediately after the plant is in operation. Air quality is to be checked up during crashing season.
14. Flow measurement device should be installed at the outlet of ETP.
15. To reduce the emission of particulate matter and gasses Electrostatic Precipitator shall be installed and connected with Boiler duct.
16. To control the air emission from power plant a stack of about 72 mts from the ground level for the boiler and 8mt. above ground for DG set would be provided. The SPM emission from the stack shall be less than 150 mg/nm^3 . The exhaust stream from the boiler will be used for the process.
17. For minimizing the escape of SO_2 from the Sulpherisation process, cane juice will be used as scrubber media which will be reused in the process.
18. Total fresh Water requirement shall not exceed 6300 KL/day on 9,000 TCD and shall be met from the ground water through tube well as proposed. Waste water generation shall not be more than $900 \text{ m}^3/\text{day}$ in season and $200 \text{ m}^3/\text{day}$ in off-season. Permission shall be obtained from the Competent Authority for withdrawal of ground water.
19. The process effluents shall not exceed $900 \text{ m}^3/\text{d}$ respectively.
20. Molasses shall be stored in MS tanks or in Pucca Lagoons. The lagoons shall have proper lining with HDPE and shall be kept in proper condition to prevent ground water pollution. As per the CPCB/ SPCB recommendation, storage shall not exceed 15 days capacity.
21. The Solid waste generated from the process will be mainly bagasse, filter cake (press mud) and boiler ash. 100 % Bagasse shall be reused as fuel in the boiler and excess bagasse, if any, shall be sent to other sugar plants for power generation. Molasses will be sent to the Distillery unit. Filter cake shall be sent for bio-composting in the Distillery. Boiler Ash shall be sold to brick manufacturers. Sludge from the scrubber shall be dried and disposed of in the low lying areas. ETP sludge shall be used as fertilizer by the farmers. Used batteries and Waste Lubricating Oil shall be sold to authorized recyclers.
22. Adequate green belt shall be provided all around the plant premises (minimum 33% of total area).
23. The Industry shall take adequate water conservation measures including providing minimum four (04) RWH pits at peak rainfall intensity.
24. CREP Guidelines for the Sugar Industries with power generation shall be followed by the unit. The capacity of Lagoon shall be as per the CPCB Guidelines.

25. Commitments made during the Public Hearing shall be complied with.
26. Chief chemist with Msc Environment Degree should be appointed.
27. The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures and to be removed after the completion of the project.
28. All storm water drain and conveyor belt should be covered.
29. Any litigation pending in the Courts of Law it shall be binding on project proponent.
30. Parking facility should be provided within the project premises.
31. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.

No construction/operation is to be started without obtaining Prior Environmental Clearance. Concealing factual data and information or submission of false/fabricated data and failure to comply with any of the conditions stipulated in the Prior Environmental Clearance attract action under the provision of Environmental (Protection) Act, 1986.

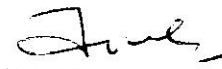
This Environmental Clearance is subject to ownership of the site by the project proponents in confirmation with approved Master Plan for Bijnor. In case of violation, it would not be effective and would automatically be stand cancelled.

You are also directed to ensure that the proposed site is not a part of any no-development zone as required/prescribed/identified under law. In case of violation, this permission shall automatically deem to be cancelled. Also, in the event of any dispute on ownership or land use of the proposed site, this clearance shall automatically deemed to be cancelled.

The project proponent will have to submit approved plans and proposals incorporating the conditions specified in the Environmental Clearance within 03 months of issue of the clearance. The SEIAA/MoEF reserves the right to revoke the environmental clearance, if conditions stipulated are not implemented to the satisfaction of SEIAA/MoEF. SEIAA may impose additional environmental conditions or modify the existing ones, if necessary. Necessary statutory clearances should be obtained and submitted before start of any construction activity.

These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006 including the amendments and rules made thereafter.

This is to request you to take further necessary action in the matter as per provision of Gazette Notification No. S.O. 1533(E) dated 14.9.2006, as amended and send regular compliance reports to the authority as prescribed in the aforesaid notification.



(J. S. Yadav)

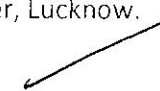
Member Secretary, SEIAA

No..... /Parya/SEAC/1572/2013/AD(H)

Dated: As above

Copy with enclosure for Information and necessary action to:

1. The Principal Secretary, Department of Environment, Govt. of Uttar Pradesh, Lucknow.
2. Advisor, IA Division, Ministry of Environment & Forests, Govt. of India, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi.
3. Chief Conservator, Regional Office, Ministry of Environment & Forests, (Central Region), Kendriya Bhawan, 5th Floor, Sector-H, Aliganj, Lucknow.
4. District Magistrate, Bijnor.
5. The Member Secretary, U.P. Pollution Control Board, Gomti Nagar, Lucknow.
6. Copy to Web Master/ guard file.



(Dr. R.K. Sardana)

Secretary, SEAC/

Director (I/C), Environment