



**F. No. - SIA/5(j)/994/2020**  
**STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY,**  
**BIHAR**

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**Dated:- 03/02/2021.**

**To,**

**Shri Mehtab Singh,**  
**(Executive President),**  
**M/s Magadh Sugar & Energy Limited,**  
**Unit:- Hasanpur Sugar Mills,**  
**District - Samastipur, Bihar,**  
**Pin:- 848205,**  
**E-mail:-hasanpursugarmill@gmail.com,**  
**Telephone No:- 264509.**

**Sub:-**

**Proposed expansion project of Magadh Sugar and Energy Limited from 5,000 TCD to 6,500 TCD, along with co-generation power plant of 12.50 MW at Village:- Hasanpur, Tehsil:- Rosera, District:- Samastipur, Bihar by Magadh Sugar and Energy Limited, Unit:- Hasanpur Sugar Mills, Total Plant Area:- 44.93 Acres;- Environmental Clearance regarding.**

**Reference:-**

1. Online Application - SIA/BR/IND2/59222/2007.
2. Your application dated 08-05-2020 & 21-12-2020 (hard copy submission).

3. Minutes of the SEAC meeting held on 19-05-2020, 21-05-2020 & 22.05.2020 and 26-12-2020.
4. Minutes of the SEIAA meeting held on 30-06-2020, 22-01-2021 & 23-01-2021.

**Sir,**

This has reference to your online application for the above proposal of M/s Magadh Sugar and Energy Limited for Distillery Division of Hasanpur Sugar Mills, (Expansion Project) at Village:- Hasanpur, Tehsil:- Rosera, District:- Samastipur, State- Bihar. The details of the projects are as follows:-

Sl. No.	Item	Details		
1.	Name of the project	Proposed expansion project of Magadh Sugar and Energy Limited from 5,000 TCD to 6,500 TCD, along with co-generation power plant of 12.50 MW at Village:- Hasanpur, Tehsil:- Rosera, District:- Samastipur, Bihar by Magadh Sugar and Energy Limited, Unit:- Hasanpur Sugar Mills,		
2.	S. No. in the Schedule	5(j)		
3.	Type of Project	Sugar Industry		
4.	Total Plant Area	44.93 Acres.		
5.	Total Green Belt Area	14.95 Acres.		
6.	Capacity of the project	Existing :- 5000 TCD After Expansion:- 6500 TCD		
7.	By Product (Tones)	Existing: - Molasses -250, press Mud-175, Bagasse-1400. After Expansion:- Molasses -292.5, press Mud-227, Bagasse-1820.		
8.	Location of the Project	Village:- Hasanpur, Tehsil:- Rosera, District:- Samastipur, State - Bihar		
9.	Geo-Coordinates of the project	Latitude - 25° 42' 30.38" N Longitude - 86° 11' 28.28" E		
10.	Nearest railway station	Hasanpur Railway Station at 0.5 Km towards North - West.		
11.	Nearest Highway	Hasanpur – Majhauri Begusarai Road		
12.	Nearest Airport	Darbhanga Airport, Patna at 60.5 Km West.		
13.	Water Requirement	A	Fresh Water requirement from Groundwater. m <sup>3</sup> /day	405
		B	Water recovered from Sugar Cane 70% on cane	4550
		A+B	Total Water requirement (water into system) m <sup>3</sup> /day	4955

		C	Excess vapor condensate recycled back.	2103		
		D	Losses at various section.	1752		
		E	Effluent generation	1100		
		C+D+E	Water out of system m <sup>3</sup> /day	4955		
14.	Raw Material Details	<b>Sl. No.</b>	<b>Raw Material</b>	<b>Existing</b>	<b>Proposed</b>	
		1.	Sugar Cane	5000 TCD	6500 TCD	
		2.	Lime	8.5 Kg/day	11.06 Kg/day	
		3.	Sulphur	2.75 Kg/day	3.58 Kg/day	
		4.	Phosphoric Acid	50 Kg/day	65 Kg/day	
		5.	Seed slurry	25 Kg/day	30 Kg/day	
		6.	Mango floc	6 Kg/day	7 Kg/day	
15.	Solid waste generation and its disposal	<b>Sl. No.</b>	<b>Input Source</b>	<b>Unit</b>	<b>Quantity of waste</b>	<b>Reuse of disposal method</b>
		1.	Sugarcane crush	TCD	6500	
		2.	Press mud@3.5% of 1	TPD	227.50	Solid as fertilizer
		3.	Baggase@28% of 1	TPD	1820.00	Used for power plant fuel
		4.	Biodegradable solid waste from housing colony	Kg/day	162	Decompose as compost and used for internal fertilizers for green cover
		5.	Non-biodegradable Solid waste from housing colony	Kg/day	108	
16.	Power Requirement	Industrial requirement-5.5 MW+ 1 MW Domestic requirement- 1.2 MW				
17.	Gross power generation capacity :-	Existing:- 12.5 MW After Expansion :- 0				
18.	Total Cost of Project	Total Project Cost - <b>2950 Lakh</b> Total Environmental Protection Measures Total Capital Cost - <b>390 Lakh</b> Total Recurring Cost - <b>100 Lakh</b> Total Corporate Environmental Responsibility - <b>75 Lakh</b>				

### PREMISES OF THE ENVIRONMENTAL CLEARANCE

This Environmental clearance is being issued on the following premises which have been substantiated/described in detail in the format of application along with enclosed affidavits / certificates / undertakings etc. furnished therewith by the project proponent:-

*Member Secretary*  
SEIAA, Bihar

- (i) Information provided, descriptions mentioned are complete, true and actual and no relevant fact has been concealed to obtain E.C. deceitfully by the project proponent.
  - (ii) Project Proponent shall intimate SEIAA immediately if there is any change in their official address / E-mail / Ph. No / Cell. no. etc failing which communication sent to them on old address shall be considered as delivered.
  - (iii) EC shall be liable to be revoked if furnished information provided description /Certificates/Affidavits/Undertaking etc. are found false/ concocted at any stage of its validity.
  - (iv) This EC is issued without affecting any court order / statutory other institutions as well as relevant other laws enacted by MoEF&CC, GoI, New Delhi.
1. 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.
  2. The Project Proponent shall obtain authorized under the Hazardous and other waste Management Rules, 2016 as amended from time to time.
  3. Adhere to 'Zero Liquid Discharge', Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.
  4. Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.
  5. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and / or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB / SPCB guidelines.
  6. Possibilities needs to be explored to meet the requirement of fresh water from surface water available in the vicinity of plant premises with due permission from competent authority. Ground water shall be withdrawn only after exhausting possibilities of using surface water and that also after obtaining prior permission from the concerned regulatory authority (Central Ground Water Authority) in this regard.

Member Secretary  
SEIAA, Bihar

7. 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.
8. 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.
9. 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.
10. The company shall undertake waste minimization measures as below:-
  - (i) Metering and control of quantities of active ingredients to minimize waste.
  - (ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
  - (iii) Use of automated filling to minimize spillage.
  - (iv) Use of Close Feed system into batch reactors.
  - (v) Venting equipment through vapour recovery system.
  - (vi) Use of high-pressure hoses for equipment clearing to reduce wastewater generation.
11. Green Belt shall be developed in an area equal to 14.95 Acres of the plant area with a native tree species in accordance with CPCB / SEIAA, Bihar guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.
12. All the commitments made regarding issues raised during the public consultation shall be satisfactorily implemented.
13. The Project Proponent shall comply with the provisions contained in Ministry of Environment, Forest & Climate Change OM Vide F. No. 22-65/2017-IA.III dated 1<sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibilities.
14. For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.

15. 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.
16. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
17. 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.
18. Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
19. Online Continuous Effluent/Emission Monitoring System (OCEMS) for 24x7 monitoring of stack emissions and effluent discharge shall be installed for measurement of prescribed parameters under EP Rules, 1986. The data of OCEMS shall be linked to to the CPCB and SPCB server. 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. The data shall also be displayed on electronic display monitor on continuous basis at a suitable location which can be accessible to common public.
20. CO<sub>2</sub> generated from the process shall be bottled / made solid ice and sold to authorized vendors.
21. The Project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government.
22. No further expansion or modification in their plant shall be carried out without prior approval of the SEIAA, Bihar Ministry of Environment, Forest and Climate Change (MoEF&CC). In case of deviations or alterations in the project proposal from those submitted to Ministry of Environment, Forest & Climate Change for Clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional Environmental Protection Measures required, if any.


23. 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. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1989 viz 75 dBA (daytime) and 70 dBA (night time).
24. 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.
25. Training shall be imparted to all employees on safety and health aspects of chemicals handling.
26. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.
27. The company shall comply with all the Environmental Protection Measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA / EMP in respect of Environment Management, Risk Mitigation Measures and Public Consultation shall be implemented.
28. The Project Proponent shall comply with the provisions contained in Ministry of Environment, Forest & Climate Change OM Vide F. No. 22-65/2017-IA.III dated 1<sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibilities. The company shall undertake all measures for improving socio-economic conditions of the surrounding area CSR activities shall be undertaken by involving local villagers, administrations and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.
29. The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the SEIAA, Bihar as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for Environment Management / Pollution Control measures shall not be diverted for any other purpose.

**Member Secretary**  
**SEIAA, Bihar**

30. The copy of the Environmental Clearance shall be submitted by the Project Proponents to the Heads of local bodies, panchayats and Zila Parishad / Municipal Bodies and the local NGO, if any, from whom suggestion / representations, if any, were received while processing the proposal and in addition to the relevant offices of the Government who in turns has to display the same for 30 days from the date of receipt.
31. The Project Proponent shall submit six-monthly reports on the status of the compliance of the stipulation Environmental Clearance conditions including monitoring data (both in hard copies as well as by e-mail) to SEIAA, Bihar and the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six-monthly compliance status report shall be posted on the company and on the website of the Ministry of Environment, Forest and Climate Change at Environment Clearance portal.
32. The Project Proponent shall submit the environmental statement for each financial year in Form – V as is mandated shall be submitted 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 along with the status of compliance of Environmental Clearance conditions and shall also be sent to SEIAA, Bihar and the respective Regional Office of MoEF&CC by e-mail.
33. 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.
34. EC conditions which are in the interest of public at large must be permanently displayed throughout the project life at prominent place which can be easily visible to public mentioning the address and contact number of authority to whom violation of EC conditions can be reported.
35. The SEIAA, Bihar reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.

Member Secretary  
SEIAA, Bihar

36. The SEIAA, Bihar may revoke or suspend the Clearance, if implementation of any of the above conditions is not satisfactory.
37. The Regional Office of this Ministry / SEIAA, Bihar 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.
38. Project proponent shall erect a signboard on his project site and display information regarding name of the project, No. date and validity period of EC, annual production capacity and other relevant information such as name and contact details of authority to report any violation for the general public.
39. The EC granted on submitted basis of the layout plan of the proposed construction of buildings / establishments of industries shall be provisional for a period of one year or till its approved by the competent authority whichever is earlier. Should there be any deviation / change in the layout plan (as contained in the project proposal on which EC is granted), the Project Proponent shall furnish a copy along with a request to SEIAA, Bihar to make necessary correction / revision in the EC accordingly. Any failure on part of the Project Proponent in doing so will be treated as a violation of EC condition
40. 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.
41. Concealing factual data or submission of false / fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Clearance and attract action under the provisions of Environment (Protection) Act, 1986.

  
Member Secretary  
SEIAA, Bihar

42. 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 16 of the National Green Tribunal Act, 2010

**Additional Conditions**

1. Project Proponent shall install a real time continuous ambient air and noise monitoring system in consultation with the SPCB and link the data on SPCB server before the operation phase. The real time continuous data display unit shall be erected at the main entrance of the project.

6/31/2021

(Sudhir Kumar)  
Member-Secretary  
SEIAA, Bihar

Member Secretary  
SEIAA, Bihar

Member Secretary  
SEIAA, Bihar