



F. No. - SIA/5(g)(j)/981/2020  
STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY,  
BIHAR

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Dated:- 17/09/2020

To,

Shri Manoj Kumar Singh,  
(Executive Vice President),  
M/s Magadh Sugar & Energy Limited,  
Unit:- New Swadeshi Sugar Mills,  
Village - Narkatiyaganj,  
P.O. - Narkatiyaganj,  
District - West Champaran, Bihar,  
Pin:- 845 455,  
E-mail: narkaiaganj@birla-sugar.in,  
Telephone No:- 06253 - 243260, 242238,  
Fax. No.:- 06253 - 242173.

Sub:

Proposed expansion project of Distillery from 60 KLD to 80 KLD, expansion of Sugar Mill from 7,500 to 9,000 TCD, along with co-generation power plant from 5.10 MW to 10.25 MW at Village:- Narkatiyaganj, P.O.- Narkatiyaganj, Tehsil:- Narkatiyaganj, District:- West Champaran, Bihar

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SEIAA, Bihar

**by Magadh Sugar and Energy Limited Unit : New Swadeshi Sugar Mills; - Environmental Clearance regarding.**


**Reference:-**

1. Online Application - SIA/BR/IND2/48586/2006.
2. Your application dated 10-01-2020 (hard copy submission).
3. Minutes of the SEAC meeting held on 28-01-2020, 19-05-2020, 21-05-2020 & 22-05-2020 & 18-08-2020.
4. Minutes of the SEIAA meeting held on 15-09-2020.

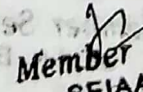
**Sir,**

This has reference to your online application for the above proposal of M/s Magadh Sugar and Energy Limited for Distillery Division of New Swadeshi Sugar Mills at Village:- Narkatiyaganj, P.O.- Narkatiyaganj, Tehsil:- Narkatiyaganj, District:- West Champaran, State:- Bihar. The details of the projects are as follows:-

Sl. No.	Item	Details				
1.	Name of the project	Proposed expansion project of Distillery from 60 KLD to 80 KLD, expansion of Sugar Mill from 7,500 to 9,000 TCD, along with co-generation power plant from 5.10 MW to 10.25 MW by Magadh Sugar and Energy Limited Unit : New Swadeshi Sugar Mills at Village:- Narkatiyaganj, P.O.- Narkatiyaganj, Tehsil:- Narkatiyaganj, District:- West Champaran, State:- Bihar				
2.	S. No. in the Schedule	5(g)(j)				
3.	Type of Project	Distilleries Industry				
4.	Total Plant Area	44.70 Ha or 110.48 Acres.				
5.	Total Green Belt Area	14.75 Ha (33% of total plot area)				
6.	Detail Capacity of project	Manufacturing facilities	Product	Existing	Proposed Addition	Total Final Capacity
		Sugar Mill	Sugar	7,500 TCD	1,500 TCD	9,000 TCD
		Distillery	Ethanol	60 KLPD	20 KLPD	80 KLPD
		Captive Power generation	Power	5.10 MW	5.15 MW	10.25 MW
7.	Location of the Project	Khata No.- 239, Khesra No.- 318, 327, 332, 336, 331, and 340, Village:- Narkatiyaganj, P.O.- Narkatiyaganj, Tehsil:- Narkatiyaganj, District:- West Champaran, State:- Bihar				
8.	Geo-Coordinates of the project	Corner NE - 27° 06' 52.16" N 84° 27' 45.01" E Corner SE - 27° 06' 32.61" N 84° 27' 26.48" E Corner NW - 27° 06' 55.20" N 84° 27' 36.16" E				

  
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		Corner SW - 27° 06' 42.85" N 84° 27' 23.30" E			
9.	Nearest railway station	Narkatiaganj Railway Station at 2.0 Km towards South.			
10.	Nearest Highway	NH - 28 B at 18 Km towards South West. Ramnagar - Narkatiaganj Road at 1.0 Km towards South.			
11.	Nearest Airport	Gorakhpur Airport, Patna at 140 Km South South West.			
12.	Proposed Boiler Details	Sl. No.	Details		
		1.	Type of Fuel	Bagasse	
		2.	Capacity of Boiler	50 TPH	
		3.	Stack Height	45	
		4.	Pollution Control Equipment Measures	Bio-gas Burner and multi cyclone dust collectors will be installed for minimizing air pollution.	
13.	Stack & Emission Details	Components		Details	
		Stack attached to		Boiler	
		Height of Stack (m.)		45.0	
		Diameter at the top of stack (m.)		1.5	
		Flue gas Temperature (°K)		398	
		Flue gas exit velocity (m/sec.)		9.0	
		Air Pollution Control Device (APCD)		Bio-gas burner and multi cyclone dust collectors will be installed for minimizing air pollution.	
14.	Solid Waste Generation and Management	Solid Wastes	Generation	Management	
		Boiler- Ash	11 TPD	Solid to brick manufactures.	
		Decanter - Sludge	28 TPD	Used for Bio-composting.	
15.	Water Requirement	Distillery Capacity 60 to 80 KLD.			
		Components	Total water before recycle (KLD)	Total water recycle (KLD)	Net. Fresh Water (KLD)
		Process Water	800	680	120
		Soft Water	600	150	450
		DM Water	600	490	110
		Total	2,000	1,320	680
		KL/KL	25	16.5	8.5
		Expanded Sugar Mill Capacity			
		Components	Existing	Proposed (Additional requirement)	Total
		Sugar Mill Water Requirement (Including Domestic Requirement)	380 KLD	1,480 KLD	1,860 KLD
Total water requirement post expansion will be 2,540 KLD.					


  
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16.	Source of water	Groundwater by own Borewell.
17.	Raw material	Molasses:- 360 MT/Day Sugarcane:- 7,500 TCD Existing; 9,000 TCD Proposed Bagasse:- 94.09 TPH Max. No. of Days Operation / Annum:- 270 days.
18.	Power Requirement	5.10 MW
19.	Source of Power	5.15 MW Co-generated Power Plant.
20.	Total Cost of Project	Total Project Cost - ₹ 76,47,06,000/- Total Environmental Protection Measures Total Capital Cost One Time - ₹ 3,70,00,000/- Total Recurring Cost/ annum - ₹ 4,50,00,000.


### 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:-


- (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.

  
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
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. Total fresh water requirement shall not exceed 80 KLD, proposed to be met from Ground water. 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.
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.

  
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SEIAA, Bihar

- (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 14.75 Ha 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.

  
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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 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.

  
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SEIAA, Bihar


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.
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

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SEIAA, Bihar



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.
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

  
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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.
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.

♦ Specific Conditions

1. Regular water sprinkling shall be done between ROB and Plant premises on Lauria - Shikarpur-Thori road and on all other peripheral roads used for transportation of raw material and finished products within 1 Km from the plant boundary to minimize air pollution during operation season.

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2. CTO be issued for expanded capacity only after ascertaining compliance on all issues as pointed out by SPCB or Regional Office of MoEF&CC.
3. A copy of compliance report related with observations of Regional Office of MoEF&CC, Ranchi shall be submitted by the Project Proponent within 3 months to SEIAA.

*(Kamal Jeet Singh)*  
Member Secretary  
SEIAA, Bihar  
**Member Secretary**  
SEIAA, Bihar