## COMPLIANCE REPORT OF ENVIRONMENT CLEARANCE (For Period oct.'2022 – MARCH.'2023)

OF

## HARINAGAR SUGAR MILLS LTD., HARINAGAR

(GRANTED BY STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, BIHAR VIDE F. No. SIA/5(J)/1276/2021 DT: 02.04.2021)

## I. <u>STATUTARY COMPLIANCE</u>:-

S. No.	PARTICULARS	COMPLIANCE
a	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 is involved in the project.	No Forest land was diverted for non-forest purpose.
b	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Not applicable
c	The project proponent shall prepare a Site-specific plan & Wildlife Management Plan and approval by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / 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.	Not applicable
d	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.	We have already obtained Consent to Operate (CTO) for both Emission and Discharge vide Ref. No. 3287 dated 28-10-2022 & Ref. No.3288 dated 28-10-2022 respectively for a period of 5 years. i.e. up to 28-10-2027 for expanded crushing capacity from 11500 TCD to 13000.  Enclosed as Annexure-I.
e	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	We have already obtained Authorization under the Hazardous and other Waste Management Rules, 2016 vide Ref. No. HW/B-2263 dated 10-12-2018. Enclosed as Annexure-II
f	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.	Not applicable.

II. Air quality monitoring and preservation

S. No.	PARTICULARS	COMPLIANCE
a	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)	OCEMS has been Installed in existing boiler stacks.
	Rules 1986 vide G.S.R. No546(E) dated 30 <sup>th</sup> August 2008 as amended from time to time and S.O. 3305 (E) dated 7 <sup>th</sup> December 2015 (Thermal	
	Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and	





	the systems be calibrated according to equipment supplier's specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	
b	The project proponent shall install system carryout Continuous Ambient Air Quality monitoring for common / criterion parameters relevant to the main pollutants released (e.g. PM <sub>10</sub> and PM <sub>2.5</sub> in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emission) 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. (case to case basis small plants: Manual; Large plants: continuous).	Ambient Air Quality Monitoring is being done through MoEFCC Recognized Environmental Laboratory. Concn. of air quality is within the norms of NAAQS 2009. (Test Reports enclosed as Annex – III)
c	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 emission to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six monthly monitoring reports.	Ambient Air Quality Monitoring & Stack Emission Monitoring is being done through MoEFCC Recognized Environmental Laboratory during season. We are submitting copy of Ambient Air & Emission Monitoring report to the BSPC Board, Patna.
d.	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 standards.	Wet Scrubber type fly ash arrestor has been installed in 74 TPH Boiler & 'ESP' system in 78 TPH Boiler and these are working satisfactory. Emission from boiler stack are complying the standard prescribed under E(P) Rules,(Stack Emission Monitoring Report attached as AnnexIV.)  To minimize and control fugitive emissions regular water spraying is being at vulnerable sources of fugitive dust. Fugitive emissions are within the standard of E (P) Rules.
e	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.	Ambient Air Quality is within the National Ambient Air Quality Standards 2009.
f	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.	We are not using coal as fuel in our boilers.
g	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 extent regulations and the guidelines in this regard.	We are not using DG sets.
h	Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	Coal is not being used in our project. Sugarcane is Raw material for our project which is being used instantly, without storing, for production of sugar. However, covered sheds are provided for temporary storage of sugarcane. Other required raw materials are stored in covered area.



Water quality monitoring and preservation III.

	DADELCHIA DC	COMPLIANCE
S. No.	PARTICULARS	COMPLIANCE
a	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 project achieving ZLD) and connected to SPCB and CPCB online servers	OCEMS for monitoring of effluent has been installed and same is connected to SPCB and CPCB servers.
b	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)	We are sending our excess treated effluent to our own Farms to use as irrigation water.
c	Process effluent / any waste water 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.	We are maintaining this system.
d	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 Air/water Act, whichever is more stringent.	2400 KLD capacity ETP based on Activated Sludge process is being operated for treatment of effluent generated from sugar mill. Treated Effluent characteristics are within the standard prescribed under E (P) Rules. We are sending our excess treated effluent to our own Farm to use as irrigation water. (Treated Effluent Test Report is attached herewith as Annex-V)
e	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 / CGWA in this regard.	We have granted 'NOC' for abstraction of fresh water from CGWA for 2500 KL/Day for 30.07.2023 and we are following the same strictly. (Enclosed as Annex-VI).
f	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.	Low TDS effluent is being generated by sugar mill which is being treated in ETP within premises.  (Untreated Effluent Test Report is attached herewith as Annex-VII)  We have already installed Sulphate Removal System (SRS) for the purpose to reduce COD/TDS from the Cooling tower overflow water. (Test Report is attached herewith as Annex-VIII)
g	The company shall harvest rainwater from the rooftops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.	We had made 8 nos. recharge pits and rooftop rainwater harvesting system has been installed.

IV.	loise monitoring and prevention	
S. No.	PARTICULARS	COMPLIANCE
a	Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Not applicable
b	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.	Equipments for controlling noise pollution in and around the plant have been provided. Ambient Noise Level report is enclosed herewith which shows noise pollution level in and around the area is within the limit.(ANL report enclosed herewith as Annex –IX).
c.	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.	The ambient noise levels conforms 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** 

S. No.	PARTICULARS	COMPLIANCE
a	The energy sources for lighting purposes shall preferably be LED based.	LED based lighting system has been implemented.

VI. Waste Management

<b>VI. V</b>	v aste Ivianagement	
S. No.	PARTICULARS	COMPLIANCE
a	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arrestors shall be provided on tank farm and the solvent transfer through pumps.	Hazard chemical is being stored in Hazards Tank / drum. Fire protection measures including flame arrestor are provided at storage areas.
b	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	Not applicable
c	The company shall undertake waste minimization measures as below:-	
i.	Metering and control of equipments of active ingredients to minimize waste.	Metering of equipments of active ingredients to minimize waste is being implemented.
ii.	Reuse of by-products from the process as raw materials or raw material substitutes in other processes.	Our by products are as under:- Molasses: Used in Distillery as its raw material. Bagasse: Used in Boilers for steam generation Press Mud: Used in Bio-fertilizer division to mix in Bio fertilizer. Boiler Ash: Used in Bio-fertilizer division to mix in Bio fertilizer.
iii.	Use of automated filling to minimize spillage.	We have installed a lot of instrumentation and automation equipments in this regard.
iv.	Use of close feed system into batch reactors.	Not applicable.
v.	Venting equipment through vapour recovery system.	Not applicable.
vi.	Use of high pressure hoses for equipments clearing to reduce waste water generation.	We are using high pressure mechanical hoses for clearing of equipments and waste water generated is stored in a pit for further use.

VII. Green Belt

S. No.	PARTICULARS	COMPLIANCE
a	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 green belt shall inter alia cover the entire periphery of the plant.	Green belt has been developed in more than 33 % of the project area. We have planted native tree species in the factory command area. Our entire periphery is covered with tree plantation. We regularly planting new trees within premises and saplings are procured from Forest Deptt. (Govt. of Bihar). Photocopy of tree plantation is attached herewith as <b>Annex-X</b> .

VIII. Safety, Public hearing and Human health issues

S. No.	PARTICULARS	COMPLIANCE
a	Emergency preparedness plan based on the Hazard	Hazard identification and Risk Assessment
	identification and Risk Assessment (HIRA) and	(HIRA) including DMP is under preparation
	Disaster Management Plan shall be implemented	and approval stage.
	200	Safety officer with his team deputed for the
		purpose.
b	The PP shall provide Personal Protection	PPE is being provided as per norms of Factory
	Equipment (PPE) as per norms of Factory Act	Act'1948.
c	Training shall be imparted to all employees on	Training imparted to employees on safety & safety
	safety and health aspects of chemicals handling,	equipments such as hand gloves, spectacles,
	Pre-employment and routine periodical medical	Masks and medical facility is provided to the
	examinations for all employees shall be	employees.
	undertaken on regular basis. Training of all	Periodic medical checkup is being done as per
	employees on handling of chemicals shall be	requirement of Factory Act'1948.
	imparted.	



d	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, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Not applicable
e	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	A team of five medical assistants are employed under a qualified Doctor for the purpose with well equipped dispensary inside the premises.  Occupational health surveillance of the workers are done on regular basis and records are maintained. (Health Check up records and Photographs are attached herewith as Annex-XI)
f	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.	We are having adequate space for Vehicles for raw materials & finished goods in our premises.

S. No.	orporate Environmental Responsibility PARTICULARS	COMPLIANCE
	The project proponent shall comply with the	Agreed, we will comply with the provisions of OM
a	provisions contained in this Ministry's OM vide	vide F.No. 22-65/2017-IA-III dated 1 <sup>st</sup> . May
	F.No. 22-65/2017-IA-III dated 1st. May 2018, as	2018.An amount of around Rs 1.00 Lacs has been
	F.No. 22-03/2017-1A-111 dated 1 . May 2016, as	dispensed towards CER Activities.
	applicable, regarding Corporate Environment	dispensed towards CERC Metricios.
	Responsibility.	
b	The company shall have a well laid down	We have a well laid down environmental policy
	environmental policy duly approved by the Boards	duly approved by the Board of Directors. System
	of Directors. The environmental policy should	has been defined for reporting infringements
	prescribe for standards for standard operating	deviation/ violation of the environmenta
	procedures to have proper checks and balances and	conditions.
	to bring into focus any infringements / deviation/	, and the second
	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.	
c.	A separate Environmental Cell both at the project	A separate Environmental Cell with qualified
	and company head quarter lever, with qualified	personnel has been set up under the control
	personnel shall be set up under the control of	senior Executive, who directly report to the hea
	senior Executive, who will directly to the head of	of the organization. (Env. Cell Details attache
	the organization.	as Annex-XII)
d.	Action plan for implementing EMP and	Action plan for implementing EMP and
	environmental conditions along with responsibility	environmental conditions along with responsibili matrix of the company will be prepared and w
	matrix of the company shall be prepared and shall	be duly approved by competent authority.
	be duly approved by competent authority. The year wise funds earmarked for environmental protection	The year wise funds earmarked for environment
	measures shall be kept in separate account and not	protection measures are kept in separate accou
	to be diverted for any other purpose. Year wise	and will not be diverted for any other purpos
	progress of implementation of action plan shall be	Year wise progress of implementation of action
	reported to the Ministry/Regional Office along	plan will be reported to the Ministry/Region
	with the Six	Office along with the Six Monthly Compliance
	Monthly Compliance Report.	Report.
e.	Self Environmental audit shall be conducted	Self Environmental audit has been conducted
· .		
	annually. Every three years third party	annually. Every three years third par

## IX. Miscellaneous

	Miscellaneous	
S. No.	PARTICULARS	COMPLIANCE
a	The project proponent shall make public the	Public notice has been published in 2 local dailies.
	environmental clearance granted for their project	(Copy attached herewith as Annex – XIII).
	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.	i i
b	The copies of the environmental clearance shall be	The copies of the environmental clearance has
	submitted by the project proponents to the Heads	been submitted to the Heads of local bodies, in
	of local bodies, Panchayats and Municipal bodies	addition to the relevant officers of the
	in addition to the relevant officers of the	Government.
	Government who in turn has to display the same	
	for 30 days from the date of receipt.	
7040	The project proponent shall upload the status of	We are uploading the status of compliance of the
c	compliance of the stipulated environment	stipulated environment clearance conditions,
		including results of monitoring data on our
	oleanane,	website http://www.harinagarsugar.com and it is
	monitoring data on their website and update the	being update on half-yearly basis.
	same on half-yearly basis.	Monitoring the criteria pollutants level namely:
d	The project proponent shall monitor the criteria	PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>2</sub> (ambient levels as well as stack
	pollutants level namely: PM10, SO2, NOx	emissions) is being done through MoEF&CC
	(ambient levels as well as stack emissions) or	
	critical sectoral parameters, indicated for the	Recognized Environmental Laboratory.
	projects and display the same at a convenient	
	location for disclosure to the public and put on the	e
	website of the company.	TV 1 'u'
e	The project proponent shall submit six-monthly	We are submitting six-monthly reports on the
	reports on the status of the compliance of the	status of the compliance of the stipulated
	stipulated environmental conditions on the website	environmental conditions on the website of the
	of the ministry of Environment, Forest and	ministry of Environment, Forest and Climate
	Climate Change at environmental clearance portal.	Change at PARIVESH portal.
f	The project proponent shall submit the	We are Submitting the same in each Financial
	environmental statement for each financial year in	Year.
	Form-V to the concerned State Pollution Control	
	Board as prescribed under the Environmental	
	(Protection) Rules, 1986, as amended subsequently	
	and put on the website of the company.	
g	The project proponent shall inform the Regional	It will be informed.
J	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.	
h	The project authorities must strictly adhere to the	We are adhering the stipulations made by state
	stipulations made by the state pollution control	pollution control board.
	board and the State Government.	
i	The project proponent shall abide by all the	Agreed
	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.	
:	No further expansion or modifications in the plant	Any expansion or modifications in the unit will b
j	shall be carried out without prior approval of the	carried out after prior approval of the SEIAA,
	Ministry of Environment, Forest and Climate	N 1000 - 2 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3
		, Dillian
	Change (MoEF&CC).	3037.5

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k	Concealing factual data or submission of	Agreed
	false/fabricated data may result in revocation of	
	this environmental clearance and attract action	
	under the provisions of environment (protection)	
	Act, 1986.	A 1
l	The Ministry may revoke or suspend the clearance,	Agreed
	if implementation of any of the above conditions if	
	not satisfactory.	Acused
m	The Ministry reserves the right to stipulate	Agreed
	additional conditions if found necessary. The	
	company in a time bound manner shall implement these conditions.	
	The Regional office of the Ministry shall monitor	Agreed
n	compliance of the stipulated conditions. The	Tigiood .
	project authorities should extend full cooperation	
	to the officer (s) of the SEIAA /Regional office by	
	furnishing the requisite data / information /	
	monitoring reports.	
0	The above conditions shall be enforced, inter-alia	Agreed
	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	, and the second
	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 Courts of law relating to the subject	
	matter.	
p	Any appeal against this EC shall lie with the	Agreed
	National Green Tribunal, if preferred, within a	
	period of 30 days as prescribed under section 16 of	
	the National Green Tribunal Act, 2010.	

For Harinagar Sugar, Mills Ltd.

Add C.C

Acting G.M.(T) (P)

CHIEF GENERAL MANAGER

