

SIX MONTHLY COMPLIANCE REPORT
(PERIOD OCTOBER 2021 - MARCH 2022)

FOR

18 MW Co-generation Plant

By



M/s. Nira- Bhima Sahakari Sakhar Karkhana Ltd

**AT: Shahajinagar, Po: Redni, Tal.: Indapur,
Dist.: Pune,
MAHARASHTRA**



निरा भिमा सहकारी साखर कारखाना लि;

Nira Bhima Sahakari Sakhar Karkhana Ltd.

Shahajinagar, Tal. Indapur, Dist. Pune.

Founder:

Hon. Shri. Harshwardhan Shahajirao Patil

Ex. Minister: Co-Operation & Parliamentary Affairs

Date: 13/08/2022

To,
The Regional Officer,
MoEFCC; Regional Officer (WCZ)
Ground Floor, East Wing,
New Secretariat Building,
Civil Lines, Nagpur- 440 001

Sub. : Submission of Six Monthly Environment Compliance report for period **October 2021 to March 2022** w.r.t. Co-gen Unit of 18 MW - "**M/s. Nira – Bhima Sahakari Sakhar Karkhana Ltd. (NBSSKL)**", At: Shahajinagar, Po : Redni, Tal.: Indapur, Dist.: Pune, Maharashtra.

Ref. : Environmental Clearance (EC) Letter No. F. No. SEAC–2012/CR-177/ TC2 dated 21.01.2014

Respected Sir,

This has reference to the Environmental Clearance granted by Ministry of Environment, Forest & Climate Change (MoEFCC); IA Division, New Delhi Vide Letter No. F. No. SEAC–2012/CR-177/ TC2 dated 21.01.2014. The same was in respect of Co-gen Plant of 18 MW by **M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd. (NBSSKL)**, At: Shahajinagar, Po : Redni, Tal.: Indapur, Dist.: Pune, Maharashtra.

As per General condition No. 25 & 28 in Environmental Clearance (EC) letter, we are submitting six monthly compliance report for period of **October 2021 to March 2022**.

We hope the details furnished by us are in accordance with your requirements.

Thanking you.

Mr. S. G. Genge - Patil

(Managing Director)

M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd. (NBSSKL)

**Point Wise Compliance
towards Conditions in
Environmental Clearance**

Six-Monthly (October 2021 to March 2022) Compliance Report on Clearance Compliance of Conditions in the Environmental (EC) issued by SEAC; Maharashtra for Co-generation unit of capacity 18 MW

A. Brief Summary of the Project

Name of Project : **Nira- Bhima Sahakari Sakhar Karkhana Ltd., (NBSSKL)**
 Type of Project : 18 MW Bagasse based Co-generation
 Clearance Letter No. & date : F. No. SEAC-2012/CR-177/TC2 dated 21.01.2014.
 Location: District & State/UT : Indapur; Dist. : Pune; State: Maharashtra
 Address for Correspondence : Shahajinagar, Post-Redni, Tal.: Indapur, Dist.: Pune,

Nira- Bhima Sahakari Sakhar Karkhana Ltd (NBSSKL) is located at Gat No. 70/1, 303, 304, 305, 306/1, 306/2, 306/3, 306/4, 306/6, 306/7, 332,333, 335, 337, 338, 339, 340, 341, 344, 345, 346,347, 348/1, 348/2, 348/3, 349, 350, 351/1, 351/2, 352, 353, 404, 405/6, 407, 408/1, 408/2, At: Shahajinagar, Po: Redni, Tal.: Indapur, Dist.: Pune, Maharashtra State. Before establishment of sugar factory, co-gen plant & distillery, the entire land was barren & was acquired from villagers. Unit was registered in May 1999. First crushing season was undertaken in year 2001-02. Present capacity of NBSSKL complex is 3,500 TCD Sugar Factory, 18 MW Co-gen plant and 30 KLPD molasses based distillery. Environmental clearance (EC) was granted to 30 KLPD Molasses Based Distillery in the year March, 2009. Environmental clearance (EC) was granted to 18 MW Co-gen plant in the year January 2014 vide letter No. F No. SEAC-2012/CR-177/TC2 dated 21.01.2014 **Copy is attached at Enclosure I.**

B. Status of Condition Compliance:

Compliance of Terms and Conditions mentioned in Environmental Clearance (EC) letter F. No. SEAC-2012/CR-177/TC2 dated 21.01.2014 for period from **October 2021 to March 2022** is presented as follows-

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
1.	Condition No.1 No additional land shall be used/acquired for any of the project without obtaining proper permission.	No additional land has been used / acquired for any activity of the project without obtaining proper permission as on today. If there is any plan the protocol as per EIA notification 2006, latest amendments will be followed.
2.	Condition No.2 For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distance in	Water sprinkling is done to suppress fugitive emissions from handling of bagasse, Pressmud and ash during crushing season. Further, Molasses,

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
	vulnerable areas of the plant shall be ensured.	Pressmud, ash is transported to disposal sites in covered vehicles.
3.	<p>Condition No.3 Regular monitoring of the air quality, including SPM & SO₂ level both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & Submit report accordingly to MPCB.</p>	<p>Routine monitoring of Ambient Air Quality is done for existing unit. The parameters monitored are PM₁₀, PM_{2.5}, SO₂ and NO_x. The monitoring station locations are decided as per wind rose pattern and as per MPCB norms. Ambient Air Quality Monitoring Stations should be set up in the down wind direction and upwind direction as well as where maximum ground level concentration of SPM, SO₂, and NO_x, are anticipated in consultation with the State Pollution Control Board Further monitoring reports are regularly submitted to MPCB. Latest monitoring reports is enclosed at Annexure- I.</p>
	<p>Condition No.4 Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.</p>	<p>A boiler of 66 TPH, 40 TPH is installed under co-gen. All boiler safety provisions are made and also boiler is certified under Factory Act through boiler inspector regularly.</p>
	<p>Condition No.5 Proper Housekeeping programmers shall be implemented.</p>	<p>Industry noted the condition and compliance is being done</p>
	<p>Condition No.6 In the event of the failure of any pollution control system adopted by the unit, the unit shall be implemented put out of operation and shall not be restarted until the desired efficiency has been achieved.</p>	<p>Continuous electricity supplied by in-house 18 MW Co- generation plant pollution control system. In case of power failure situation, industrial activities are immediately shut down along with pollution control system.</p>
	<p>Condition No. 7 A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollution from DG set. (if applicable)</p>	<p>Two no. of DG sets are provided under existing unit. Diesel @ 20 lit/Hr. is used as fuel during only power failure, DG sets are operated. Stack of 14 M height above the roof level is provided along with silencer.</p>
	<p>Condition No. 8 A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.</p>	<ul style="list-style-type: none"> • Runoff from Rooftop & Surface to be harvested & stored in Tanks (Farm Pond Type). • Rooftop Yield is 18,713 M³ while Surface Runoff Yield is 1,12,890 M³; Total Runoff Yield of 1,31,603 M³ • Four Tanks will be provided with Capacity of 30,000 M³, 35,000 M³, 8,000 M³ & 2,000 M³ • Utilization for Green Belt, Fire Hydrant, Washing & Flushing • Excess RWH Qty. diverted to Common Drain through Storage Tank out lets on Site. Rainwater

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
		harvesting photographs is enclosed at Annexure-II.
	Condition No.9 Arrangement shall be made that effluent and storm water does not get mixed.	Separate gutters are provided for storm water collection. While Effluent is taken through closed pipe to treatment sites.
	Condition No. 10 Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.	Industry has 3 Nos installed piezometers for measurement of quality of ground water. Periodic monitoring of ground water is done. The same are within norms of drinking standards. Monitoring report of Ground water enclosed at Annexure-I. Photographs of piezometer enclosed at Annexure-III.
	Condition No. 11 Leq. of Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.	Condition is complied. Workers employed in high noise prone areas are provided with appropriate protective equipment's such as ear plugs, ear-muffs etc.
	Condition No. 12 The overall noise level in and around the plant area shall be kept 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 confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules 1989.	The overall noise levels in and around the plant area are kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise control generation. Noise monitoring reports for existing unit are enclosed at Annexure -I.
	Condition No.13 Green belt shall be development & maintained around the plant periphery. Green belt Development shall be carried out considering CPCB guideline including selection of plant species and in consultation with the local DFO/ Agriculture Dept.	Total open space available in the premises of NBSSKL (including existing sugar factory, co- gen plant and existing as well as after expansion distillery) is 27.15 Ha. As per MoEFCC norms, green belt should be developed on 33% of the total plot area of industry. Under existing set up, 1, 22,502 Sq. M area is under green belt, which is 23 % of total plot area. Work of additional 410 no. of different trees is around distillery plant in year 2022. Details and photographs of green belt is enclosed at Annexure-IV.
	Condition No. 14 Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident.	Sugar factory is an agro based industry no any hazardous chemicals are used for process nor are

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
	Leak detection devices shall also be installed at strategic places for early detection and warning.	they stored on site. As far as Sulphur used in process. Same is in powder form.
	<p>Condition No. 15 Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per Factory Act.</p>	Occupational health surveillance is being carried out for all employees and records are maintained. Moreover, health awareness camps are regularly organized to educate workers and staff members about the Health Hazards and control measures. Workers entering inside the plant area are provided Personal Protective Equipment's (PPEs) like ear plug, ear muffs etc. A sample copy of latest health check-up report is attached at Annexure – V .
	<p>Condition No. 16 The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.</p>	Firefighting arrangements have been provided on site as per Factories Act. Fire extinguishers are installed at strategic places. Regular firefighting mock drills are conducted to train workers for fire hazards. Photographs of fire extinguishers provided on site is enclosed at Annexure- VI .
	<p>Condition No. 17 The project authority must strictly comply with the rules and regulation with regard to handling and disposal of hazardous wastes in accordance with the Hazardous waste (Management and Handling) Rules 2003 (amended). Authorization from the MPCB shall be obtained for collection/ treatment/ storage/ disposal of hazardous wastes.</p>	Hazardous waste generated from sugar and co-generation unit in the form of Spent Oil- 200 Kg/M, Spent oil is burnt in boiler.
	<p>Condition No. 18 The company shall undertake following waste Minimization Measures:</p> <ul style="list-style-type: none"> • Metering of quantities of active ingredients to minimize waste. • Reuse of by-products from the process as raw or as raw materials substitutes in other process. • Use of automated materials transfer system to minimize spillage. 	Industry noted the condition and is strictly following the same.
	<p>Condition No. 19 Regular mock drill for the on –site emergency management plan shall be carried out. Implement of changes/ improvement required, if any, in the on-site management plan shall be ensured.</p>	Training sessions/workshops for employees on safety and health aspects are organized from time to time. Also, periodical medical examination for all employees is arranged on regular basis. Onsite record of the same is maintained. Sample copy of

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated																		
		latest health check-up report is enclosed at Annexure-V.																		
	<p>Condition No. 20 A separate environment management cell with qualified staff shall be set up for implement of the stipulated environment safeguards.</p>	The industry has an Environmental Management Cell (EMC) functioning. Members of the EMC are well qualified and experienced in their concerned fields. Details of EMC is enclosed at Annexure - VI																		
	<p>Condition No. 21 Transportation of ash will be through closed container and all measures should be taken to prevent spilling of the ash.</p>	Ash to the tune of 600 MT/Month is generated from current operations and same is given to brick manufacturers. Water sprinkling arrangements have been done to avoid fly ash particles from becoming air borne. Also, under proposed green belt plantation program, plantation shall be done around fly ash storage yard. CPCB guidelines for storage of ash are duly being followed.																		
	<p>Condition No. 22 Separate silos will be provided for collecting and storing bottom ash and fly ash.</p>	Fly ash generated is stored in ash storage area. Water sprinkling arrangements have been done to avoid suspension of fly ash into air. Photographs of silo for bottom ash collector is enclosed at Annexure - VII.																		
	<p>Condition No. 23 Separate funds shall be allocated for implemented of environment protection measures/ EMP along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purpose and year-wise expenditure should reported to the MPCB & this department.</p>	<p>Compliance strictly followed. The Company is complying with all the environmental protection measures and safeguards and implement all the recommendations made in EIA/EMP. Details are given in table below:</p> <table border="1" data-bbox="778 1350 1437 1944"> <thead> <tr> <th rowspan="2">No.</th> <th rowspan="2">Description</th> <th colspan="2">Cost Component (Rs. Cr)</th> </tr> <tr> <th>Capital</th> <th>Annual O & M</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>APC Equipments: ESP (66 TPH), Wet scrubber (40 TPH), Stack heights 75 M & 60 M.</td> <td>7.25</td> <td>0.7</td> </tr> <tr> <td>2.</td> <td>Water Pollution Control & OCMS (Bio-compost Yard & Machine, Sp. wash Tank, Maintenance of ETP, OCMS)</td> <td>12.50</td> <td>1</td> </tr> <tr> <td>3.</td> <td>Noise Pollution: Insulation, Isolation, Attenuation Infrastructure of Plant & Machinery, PPEs</td> <td>1.00</td> <td>0.05</td> </tr> </tbody> </table>	No.	Description	Cost Component (Rs. Cr)		Capital	Annual O & M	1.	APC Equipments: ESP (66 TPH), Wet scrubber (40 TPH), Stack heights 75 M & 60 M.	7.25	0.7	2.	Water Pollution Control & OCMS (Bio-compost Yard & Machine, Sp. wash Tank, Maintenance of ETP, OCMS)	12.50	1	3.	Noise Pollution: Insulation, Isolation, Attenuation Infrastructure of Plant & Machinery, PPEs	1.00	0.05
No.	Description	Cost Component (Rs. Cr)																		
		Capital	Annual O & M																	
1.	APC Equipments: ESP (66 TPH), Wet scrubber (40 TPH), Stack heights 75 M & 60 M.	7.25	0.7																	
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3.	Noise Pollution: Insulation, Isolation, Attenuation Infrastructure of Plant & Machinery, PPEs	1.00	0.05																	

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated			
		4.	Occupational Health and Safety (Medical Checkup of employees, PPEs)	0.50	0.08
		5.	Environmental Monitoring & Management	0.25	0.02
		6.	Green Belt Development	0.50	0.15
		7.	Provision towards CER	0.44	--
			Total	22.44	2
	<p>Condition No. 24 The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the concerned within seven days of issue of this letter, informing that the project has been accorded environment clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://ec.Maharashtra.gov.in.</p>	<p>Condition is complied. As per EIA notification within 7 days from the date of issues of the clearance letter, at least in the two local newspapers. An advertisement of accord of EC to our 18 MW Co-generation unit has been published in two local newspapers one is local language and English newspaper. Advertisement copy is enclosed at Annexure VIII.</p>			
	<p>Condition No. 25 Project management should be submit half yearly compliance reports in respect of the stipulated prior environment clearance terms condition in hard & soft copies to the MPCB & this department on 1st June & 1st December of each calendar year.</p>	<p>Latest six monthly compliance report for period April 2021 to September 2021 was submitted to Regional Office of MoEFCC Nagpur on 07.02.2022 by mail. Acknowledgment of previous Six Monthly Compliance report is enclosed at Annexure –IX.</p>			
	<p>Condition No. 26 A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation 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 website of the Company by the proponent.</p>	<p>The condition is complied with necessary action.</p>			
	<p>Condition No. 27 The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall</p>	<p>The compliance of EC conditions has been uploaded on the Industry’s website and is updated from time to time. The status of compliance of the stipulated EC conditions, including results of</p>			

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
	<p>update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectorial parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	<p>monitored data will be updated periodically And will be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The condition is complied. Photograph of the pollutant levels displayed on the board at the main gate of the company and Company Website is enclosed at Annexure – X.</p>
	<p>Condition No. 28 Six monthly monitoring reports should be submitted to the Regional office MoEF, Bhopal with copy to this department and MPCB.</p>	<p>Latest six monthly compliance report for period April 2021 to September 2021 was submitted to Regional Office of MoEFCC Nagpur on 02.07.2021 by mail. Acknowledgment of previous Six Monthly Compliance report is enclosed at Annexure –IX.</p>
	<p>Condition No. 29 The environmental statement for each financial year ending 31st March in Form-V as in 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 EC conditions and shall also be sent to the Regional Offices of MoEF by e- mail.</p>	<p>Compliance is being done. The environmental statement for each financial year ending 31st March in Form-V will be submitted to State Pollution Control Board as prescribed under the Environment (Protection) Rules 1986, and amended subsequently. Acknowledgement of same are attached at Annexure – XI. The company will also put the status of compliance of environmental clearance conditions on its website and forward it to the Regional Offices of MoEF.</p>
	<p>Condition No. 30 The environment clearance is being issued without prejudice to the court case pending in the court case of law and it does not mean that project proponent has not violated any environment laws in the part and whatever decision of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him.</p>	<p>This condition is being noted.</p>

Enclosure – I

Copy of Environment Clearance Letter

Government of Maharashtra

SEAC-2012/CR-177/TC2
Environment department
Room No. 217, 2nd floor,
Mantralaya Annexe,
Mumbai- 400 032.
Dated: 21st January, 2014

To,
M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd
Shahajinagar, Post- Redni,
Tal. Indapur, Dist.-Pune- 413114

Subject: Environmental clearance for proposed 18 MW Bagasse based Co-generation power plant at Nira Bhima Sahakari Sakhar Karkhana Ltd. Shahajinagar, Post-Redni, Tal. Indapur, Dist. Pune by M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification, 2006, by the State Level Expert Appraisal Committee-I, Maharashtra in its 72nd meeting and decided to recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 63rd Meeting.

2. It is noted that the proposal is for grant of Environmental Clearance Proposed 18 MW Bagasse based Co-generation power plant at Nira Bhima Sahakari Sakhar Karkhana Ltd., Shahajinagar, Post-Redni, Tal. Indapur, Dist. Pune. SEAC considered the project under screening category 1 (d), B1 of EIA Notification, 2006.

Brief Information of the project submitted by Project Proponent is as:

Name of Project	18 MW Bagasse Based Co-generation Power Plant by Nira Bhima Sahakari Sakhar Karkhana Ltd. (NBSSKL)	
Project Proponent	M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd. (NBSSKL)	
Consultant	MITCON Consultancy & Engineering Services Ltd.	
New Project	New Project	
Area Details	Total plot area (Acre.): 100 Built up area (Acre.): 11	
Estimated capital cost of the Project (including cost for land, building, plant and machinery separately)	Total Project Cost	Cogen Power (Rs. in Lakh)
	Land & Site Development	12.00
	Civil works & Buildings	482.82
	Indigenous Plant and Machinery	6780.62
	Preliminary & Pre-Op. Expenses	571.35
	Contingencies	19.19
	Margin Money	40

	Miscellaneous Fixed Assets	120			
	Power Evacuation arrangement	740.80			
	Supervision Charges for Synchronizing	14.92			
	Total	8781.7			
Location details of the project :	Latitude : 17°59'29.94"N Longitude : 74°56'42.45"E Location : Gut No. 340,341,344,345,346,347,348 Shahajinagar. Post- Redni, Tal. Indapur, Dist.-Pune. Pin-4131114 Elevation above Mean Sea Level: 525 meter				
Distance from Protected Areas	There are no Protected areas / Critically polluted areas / Eco-Sensitive areas/ inter-state boundaries within 10 Km radial area				
Raw materials (including process chemicals, catalysts, & additives).	List of raw materials to be used	Physical and chemical nature of raw material	Quantity (tonnes/year) full production capacity	Source of materials	Means of transportation (Source to storage site) with justification
	Bagasse	Fibrous material	Season (160 days) : 152564MT Off-season (69 Days): 32493 MT	Existing Sugar Factory (NBSSKI.)	By conveyor belt with enclosed-sheet & pipelines
	Biogas	Gas	Season :1.475 TPI Off-season :1.475 TPI		
Production details	Name of Products. By products and Intermediate Products		Existing (T/Year)	Proposed activity (new/modernization/expansion) (T/Year)	Total (T/Year)
	Main Products: (Power)	Season (160 Days)	0	18 MW	18MW
		Off-Season (69Days)	0	12 MW	12 MW
	By-Products Intermediate Products: Ash	Season (160 Days)	0	3051 MT	3051 MT
		Off-Season (69 Days)	0	650 MT	650 MT
Process details / manufacturing details	In power generation scheme, chemical energy of fuel is first converted into thermal energy (during combustion), which is then converted into mechanical energy (through a turbine) and finally into electrical energy (through a generator).				
Rain Water Harvesting (RWH)	In the factory premises roof top area will be determined and subsequently rain water harvesting potential will be calculated. However detailed design and engineering of the RWH system will be undertaken during implementation stage.				
Total Water Requirement	Total water requirement: Fresh water (CMD) : Season (160 Days) :893 Off-Season (69 Days) : 1009				

		& Source: Bhima River			
		Use of the water:			
		Particulars		Season (CMD)	Off-Season (CMD)
		Process		30	25
		Cooling water		464	690
		DM Water		398	293
		Dust Suppression		60*	61*
		Drinking		1	1
		Green belt		86*	80
		Fire service		13	13
		Others		2	1
		*Treated water reused.			
Storm water drainage	Proper storm water drainage line will be provided to maintain the natural flow of storm water				
Sewage generation and treatment	Amount of sewage generation (CMD): 3 Proposed treatment for the sewage : Septic tanks followed by Soak Pits Capacity of the STP (CMD) (If applicable): NA. all sewage will be treated in ETP				
Effluent characteristic	All the effluent characteristic will be prescribed as per MPCB. Norms				
ETP details	Existing ETP having capacity 700 m ³ /day. NBSSKL has already modernized existing ETP.				
Disposal of the ETP sludge (If applicable)	After treatment in ETP generated sludge will be used for gardening purpose				
Solid waste Management	Sr. No	Source	Qty (TPM)	Form (Sludge / Dry / Slurry etc.)	Composition
	1.	Raw water treatment plant	--	--	--
	2.	ETP	8 MT (18 MW season operation-160days and 3MT (12 MW off season operation)	Sludge	---
	3.	Process	Ash-305MT (18 MW season operation-160days and 650MT (12 MW off season operation)	Dry	potash
	4.	Spent Catalyst	--	--	--

	5.	Oily Sludge	--	--	--	
	6.	Others like Battery waste, e waste etc (Pl. Specify)	--	--	--	
Atmospheric Emissions (Flue gas characteristics SPM, SO ₂ , NO _x , CO, etc.)	Sr. No.	Pollutant	Source of Emission	Emission rate (kg/hr)	Concentration in flue gas (g/sec)	
	1	SPM	Stack	0.477	3.1	
	2	SO ₂	Stack	39.73	11	
	3	NO _x	Stack	Concentration in flue gas will be 100 mg/Nm ³		
	4	CO	Stack	NA	NA	
Stack emission Details:						
	Plant Section & units	Stack No.	Height from ground level (m)	Internal Diameter (Top)(m)	Emission Rate (kg/hr)	Temp. of Exhaust Gases (°C)
	66 TPH Boiler	1 st	75	3.6	0.29	150
	40 TPH Boiler	2 nd	60	3.5	11.16	
Emission Standard	As per CPCB, MPCB Norms					
Ambient Air Quality Data						
	Pollutant	Permissible Standard µg/m ³	Proposed/ Resultant Concentration (in µg/m ³)	Remarks		
	PM ₁₀	100	27.22	Due to proposed activity there is increase in pollution activity it will be mitigate by providing pollution control equipments such as ESP & dust suppression method & by developing green belt around the factory and within the premises		
	SO ₂	80	31.9			
	NO _x	80	29.3			

1	Air Pollution Control System	200.00	12.00
2	Water pollution control systems (E.T.P)	---	15
5	Noise pollution control	20.00	2.00
6	Green Belt Development/ Maintenances	25.00	2.50
7	Environmental monitoring / Environmental Management	25.00	5.00
8	Occupational health & safety	10.00	5.00
TOTAL		280.00	29.0

3. The proposal has been considered by SEIAA in its 63rd meeting decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions :

- Yearly*
- (i) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
- (ii) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.
- (iii) Regular monitoring of the air quality, including SPM & SO₂ levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.
- (iv) Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.
- (v) Proper Housekeeping programmes shall be implemented.
- (vi) In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.
- (vii) A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable)
- (viii) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
- Ground water*
- (ix) Arrangement shall be made that effluent and storm water does not get mixed.
- (x) Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
- (xi) Leq of Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.
- (xii) The overall noise levels in and around the plant are 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, 1986 Rules, 1989.

- (xiii) Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
- (xiv) Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.
- (xv) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
- (xvi) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
- (xvii) The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.
- (xviii) The company shall undertake following Waste Minimization Measures :
- Metering of quantities of active ingredients to minimize waste.
 - Reuse of by- products from the process as raw materials or as raw material substitutes in other process.
 - Maximizing Recoveries.
 - Use of automated material transfer system to minimize spillage.
- (xix) Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
- (xx) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xxi) Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.
- (xxii) Separate silos will be provided for collecting and storing bottom ash and fly ash.
- (xxiii) Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department
- (xxiv) The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <http://ec.maharashtra.gov.in>
- (xxv) Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
- (xxvi) A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation 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 website of the Company by the proponent.
- (xxvii) The proponent shall upload the status of compliance of the stipulated EC 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 MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral

Dup Urgent

parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

(xxviii) Six monthly monitoring reports should be submitted to the Regional office MoEF, Bhopal with copy to this department and MPCB.

(xxix) 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 EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.

(xxx) The environmental clearance is being issued without prejudice to the court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him.

4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.

5. The Environment department reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.

6. *JML* Validity of Environment Clearance: The environmental clearance accorded shall be valid for a period of 5 years to start of production operations.

7. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

8. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

9. Any appeal against this environmental clearance shall lie with the National Green Tribunal, Van Vigyan Bhawan, Sec- 5, R.K. Puram, New Dehli - 110 022, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010

R.A. Rajeev
(R.A. Rajeev)
Principal Secretary,
Environment department &
MS, SEIAA

Copy to:

1. Shri. R. C. Joshi, IAS (Retd.), Chairman, SEIAA, Flat No. 26, Belvedere, Bhulabhai desai road, Breach candy, Mumbai- 400026.
2. Shri. Dr. S. Devotta, Chairman, SEAC, T2/302 Sky City, Vanagaram -Ambattur Road, Chennai -600 095

3. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
4. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).
5. Regional Office, MPCB, Pune.
6. Commissioner, Pune Municipal Corporation, Pune.
7. Collector, Pune.
8. IA- Division, Monitoring Cell; MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.
9. Director (TC-1), Dy. Secretary (TC-2), Scientist-1, Environment department.
10. Select file (TC-3).

(EC Uploaded on - 22.07.14)

Annexure I
Latest monitoring reports

DATE: JANUARY 14, 2022

AMBIENT AIR QUALITY MONITORING RESULTS

Client:	Equinox Environments (India) Pvt. Ltd., Kolhapur.
Report No.:	GESEC/PRO/2021-22/01/1204
Industry :	Nira Bhima Sahakari Sakhar Karkhana Limited (Sugar Unit)
Site :	Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.
Plant Condition :	In Operation.
Date of Sampling :	07.01.2022

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Bodani Village	
02	Time of Sampling	08:45 A.M.	
03	Ambient Temperature	21 ⁰ C	
04	Dry Bulb Temperature	21 ⁰ C	
05	Wet Bulb Temperature	17 ⁰ C	
06	Relative Humidity	67.1 %	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM ₁₀)	57.23 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	18.20 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO ₂)	16.45 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO _x)	18.77 µg/cum	80 µg/cum

Note:

- NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B - 29016 / 20 / 90 / PCI - I, New Delhi, the 18th November 2009.

ANALYZED BY- 		AUTHORIZED SIGNATORY 
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- MoEF approved Lab by Govt. of India. From date. 09/02/2017 to 08/02/2022

DATE: JANUARY 14, 2022

AMBIENT AIR QUALITY MONITORING RESULTS



Client:	Equinox Environments (India) Pvt. Ltd., Kolhapur.
Report No.:	GESEC/PRO/2021-22/01/1205
Industry :	Nira Bhima Sahakari Sakhar Karkhana Limited (Sugar Unit)
Site :	Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.
Plant Condition :	In Operation.
Date of Sampling :	07.01.2022

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Redani Village	
02	Time of Sampling	09:30 A.M.	
03	Ambient Temperature	23°C	
04	Dry Bulb Temperature	23°C	
05	Wet Bulb Temperature	17°C	
06	Relative Humidity	54.6 %	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM ₁₀)	59.63 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	20.45 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO ₂)	17.71 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO _x)	19.84 µg/cum	80 µg/cum

Note:

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DATE: JANUARY 14, 2022

AMBIENT AIR QUALITY MONITORING RESULTS

Client:	Equinox Environments (India) Pvt. Ltd., Kolhapur.
Report No.:	GESEC/PRO/2021-22/01/1206
Industry :	Nira Bhima Sahakari Sakhar Karkhana Limited (Sugar Unit)
Site :	Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.
Plant Condition :	In Operation.
Date of Sampling :	07.01.2022

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Bagasse Yard	
02	Time of Sampling	10:10 A.M.	
03	Ambient Temperature	25 ⁰ C	
04	Dry Bulb Temperature	25 ⁰ C	
05	Wet Bulb Temperature	18 ⁰ C	
06	Relative Humidity	50.3 %	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM ₁₀)	60.13 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	21.47 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO ₂)	19.69 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO _x)	22.98 µg/cum	80 µg/cum

Note:

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DATE: JANUARY 14, 2022

AMBIENT AIR QUALITY MONITORING RESULTS

Client:	Equinox Environments (India) Pvt. Ltd., Kolhapur.
Report No.:	GESEC/PRO/2021-22/01/1207
Industry :	Nira Bhima Sahakari Sakhar Karkhana Limited (Sugar Unit)
Site :	Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.
Plant Condition :	In Operation.
Date of Sampling :	07.01.2022

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Ash Storage	
02	Time of Sampling	10:20 A.M.	
03	Ambient Temperature	25°C	
04	Dry Bulb Temperature	25 °C	
05	Wet Bulb Temperature	18 °C	
06	Relative Humidity	50.3 %	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM ₁₀)	60.23 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	22.45 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO ₂)	17.56 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO _x)	20.17 µg/cum	80 µg/cum

Note:

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DATE: JANUARY 14, 2022

AMBIENT AIR QUALITY MONITORING RESULTS



Client:	Equinox Environments (India) Pvt. Ltd., Kolhapur.
Report No.:	GESEC/PRO/2021-22/01/1208
Industry :	Nira Bhima Sahakari Sakhar Karkhana Limited (Sugar Unit)
Site :	Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.
Plant Condition :	In Operation.
Date of Sampling :	07.01.2022

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Main Gate	
02	Time of Sampling	10:30 A.M.	
03	Ambient Temperature	26°C	
04	Dry Bulb Temperature	26 °C	
05	Wet Bulb Temperature	19 °C	
06	Relative Humidity	51.4 %	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM ₁₀)	64.23 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	25.81 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO ₂)	21.70 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO _x)	26.35 µg/cum	80 µg/cum

Note:

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DATE: JANUARY 14, 2022

AMBIENT AIR QUALITY MONITORING RESULTS

Client:	Equinox Environments (India) Pvt. Ltd., Kolhapur.
Report No.:	GESEC/PRO/2021-22/01/1209
Industry :	Nira Bhima Sahakari Sakhar Karkhana Limited (Sugar Unit)
Site:	Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.
Plant Condition:	In Operation.
Date of Sampling:	07.01.2022

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Weigh Bridge	
02	Time of Sampling	10:40 A.M.	
03	Ambient Temperature	26°C	
04	Dry Bulb Temperature	26 °C	
05	Wet Bulb Temperature	19 °C	
06	Relative Humidity	51.4 %	
07	Sampling Duration	60 Min	
08	Particulate Matter(PM ₁₀)	65.86 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	21.94 µg/cum	60 µg/cum
10	Sulphur Dioxide	26.17 µg/cum	80 µg/cum
11	Oxides of Nitrogen	31.55 µg/cum	80 µg/cum

Note:

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DATE: JANUARY 14, 2022

WORK ZONE AIR QUALITY MONITORING RESULTS



Client:	Equinox Environments (India) Pvt. Ltd., Kolhapur.
Report No.:	GESEC/PRO/2021-22/01/1210
Industry :	Nira Bhima Sahakari Sakhar Karkhana Limited (Sugar Unit)
Site:	Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.
Plant Condition:	In Operation.
Date of Sampling:	07.01.2022

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	The Factories Act 1948, standards
01	Test Location	Sugar House	
02	Time of Sampling	11:00 A.M.	
03	Ambient Temperature	25 °C	
04	Dry Bulb Temperature	25 °C	
05	Wet Bulb Temperature	16 °C	
06	Relative Humidity	38.3 %	
07	Sampling Duration	60 Min	
08	Suspended Particulate Matter (SPM)	190.36 µg/cum	5000 µg/cum
09	Sulphur Dioxide	18.97 µg/cum	6000 µg/cum
10	Oxides of Nitrogen	20.60 µg/cum	10,000 µg/cum

Note:

- The Factories' Act, 1948 has prescribed Work Zone Air Level threshold limit.

ANALYZED BY- 		AUTHORIZED SIGNATORY 
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- MoEF approved Lab by Govt. of India. From date. 09/02/2017 to 08/02/2022

DATE: JANUARY 14, 2022

WORK ZONE AIR QUALITY MONITORING RESULTS

Client:	Equinox Environments (India) Pvt. Ltd., Kolhapur.
Report No.:	GESEC/PRO/2021-22/01/1211
Industry :	Nira Bhima Sahakari Sakhar Karkhana Limited (Sugar Unit)
Site:	Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114
Plant Condition:	In Operation.
Date of Sampling:	07.01.2022

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	The Factories Act 1948, standards
01	Test Location	Centrifuge Section	
02	Time of Sampling	11:15 A.M.	
03	Ambient Temperature	25 °C	
04	Dry Bulb Temperature	25 °C	
05	Wet Bulb Temperature	16 °C	
06	Relative Humidity	38.3 %	
07	Sampling Duration	60 Min	
08	Suspended Particulate Matter (SPM)	168.33 µg/cum	5000 µg/cum
09	Sulphur Dioxide	12.41 µg/cum	6000 µg/cum
10	Oxides of Nitrogen	19.67 µg/cum	10,000 µg/cum

Note:

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ANALYZED BY- 		AUTHORIZED SIGNATORY 
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DATE: JANUARY 14, 2022

SOURCE EMISSION MONITORING RESULTS

Client:	Equinox Environments (India) Pvt. Ltd., Kolhapur.
Report No.:	GESEC/PRO/2021-22/01/1212
Industry :	Nira Bhima Sahakari Sakhar Karkhana Limited (Sugar Unit)
Site :	Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.
Plant Condition :	In Operation.
Date of Sampling :	07.01.2022
Time :	11:30 A.M.

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS
01	Test Location	Sugar-Co Gen boiler (66 TPH)
02	Material of Stack	RCC
03	Stack Height from ground level	75 M
04	Type of Stack	Round
05	Flue Gas Temperature	114 ⁰ C (387 K)
06	Differential Pressure	3.00 mm WG
07	Velocity	6.47 M/Sec
08	Stack Diameter	3.60 M
09	Stack Area	10.1736 M ²
10	Gas Volume	182764.28 NM ³ /Hr

FLUE GAS QUALITY

SR. NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	39.83 mg/NM ³
02	SO ₂	19.37 mg/NM ³
		84.96 Kg/Day

Note:

- Maharashtra Pollution Control Board (MPCB) Limits : SPM: 150 mg / Ncum and SO₂: As per Consent .

ANALYZED BY-			AUTHORIZED SIGNATORY
			

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Recognised by Ministry of Environment, Forest & Climate Change (MoEF) Govt. of India and ISO 9001:2015, ISO 45001 : 2018 Certified Company

GESEC

DATE: JANUARY 14, 2022

SOURCE EMISSION MONITORING RESULTS

Client:	Equinox Environments (India) Pvt. Ltd., Kolhapur.
Report No.:	GESEC/PRO/2021-22/01/1213
Industry :	Nira Bhima Sahakari Sakhar Karkhana Limited (Sugar Unit)
Site :	Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.
Plant Condition :	In Operation.
Date of Sampling :	07.01.2022
Time :	12:50 P.M.

RESULTS


SR. NO.	TEST DESCRIPTION	READINGS
01	Test Location	Sugar-Co Gen Boiler (40 TPH)
02	Material of Stack	RCC
03	Stack Height from ground level	60 M
04	Type of Stack	Round
05	Flue Gas Temperature	111°C (384 K)
06	Differential Pressure	2.50 mm WG
07	Velocity	5.88 M/Sec
08	Stack Diameter	3.50 M
09	Stack Area	9.6163 M ²
10	Gas Volume	158314.85 NM ³ /Hr

FLUE GAS QUALITY

SR. NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	35.63 mg/NM ³
02	SO ₂	15.24 mg/NM ³
		57.91 Kg/Day

Note:

- Maharashtra Pollution Control Board (MPCB) Limits : SPM: 150 mg / Ncum and SO₂: As per Consent .

ANALYZED BY-			AUTHORIZED SIGNATORY
			

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5. We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement
6. MoEF approved Lab by Govt. of India. From date. 09/02/2017 to 08/02/2022



Recognised by Ministry of Environment, Forest & Climate Change (MoEF) Govt. of India and ISO 9001:2015, ISO 45001 : 2018 Certified Company
GESEC

DATE: JANUARY 14, 2022

NOISE LEVEL MONITORING RESULTS


Client:	Equinox Environments (India) Pvt. Ltd., Kolhapur.
Report No.:	GESEC/PRO/2021-22/01/1214
Industry :	Nira Bhima Sahakari Sakhar Karkhana Limited (Sugar Unit)
Site :	Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114
Plant Condition :	In Operation.
Sampling Date :	07.01.2022

RESULTS

SR.NO.	LOCATION	READINGS dB(A)	
		Day (02:00 P.M.)	Night (10:45 P.M.)
AMBIENT			
01	Near Main Gate	66.1	61.0
02	Near Weighing Bridge	71.8	69.5
03	Near Spray Pond	63.5	59.7
04	Near Sugar Godown	60.5	58.3
05	Near Bagasse Yard	64.9	59.8
	Limits	75.0	70.0
WORK ZONE			
01	Mixing Section	82.5	81.4
02	Boiler Section	85.0	83.9
03	Juice Clarification Section	78.6	74.1
04	Centrifuge Section	82.9	80.6
05	Sugar House	81.4	77.2
	Limits		90.0

Note:

- Maharashtra Pollution Control Board (MPCB) has prescribed 75 dB (A) as an upper limit of Noise Level during the Day Time & 70 dB (A) during the Night Time.
- The Factories' Act, 1948 has prescribed Work Zone Noise Level threshold limit for 8 hours' exposure as 90 dB (A).

ANALYZED BY- 		AUTHORIZED SIGNATORY 
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Terms and conditions

1. The report is refer only to the sample tested and not applies to the bulk.
2. The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
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GESEC

DATE: JANUARY 14, 2022

EFFLUENT SAMPLE ANALYSIS REPORT

Client:	Equinox Environments (India) Pvt. Ltd., Kolhapur.
Report No.:	GESEC/PRO/2021-22/01/1215
Industry :	Nira Bhima Sahakari Sakhar Karkhana Limited (Sugar Unit)
Site:	Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114
Plant Condition:	In Operation
Sampling Date:	07.01.2022
Analysis Date:	08.01.2022
Sample Name:	ETP-Untreated & Treated

RESULTS

SR. NO.	TEST DESCRIPTION	UNTREATED	TREATED	MPCB LIMIT	UNIT
01	pH	3.50	7.41	5.5 - 9.0	--
02	Suspended Solids (SS)	158.67	38.12	100	mg/lit
03	Total Dissolved Solids (TDS)	4516.91	762.33	2100	mg/lit
04	Chemical Oxygen Demand (COD)	3802.07	69.50	250	mg/lit
05	Biochemical Oxygen Demand (BOD)	1694.38	24.77	100	mg/lit
06	Chlorides as Cl ⁻	963.40	167.81	600	mg/lit
07	Sulphates as SO ₄ ⁻	889.76	149.37	1000	mg/lit
08	Oil & Grease	11.00	BDL	10	mg/lit

Note:

- BDL: Below Detectable Limit

ANALYZED BY- 		AUTHORIZED SIGNATORY 
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Terms and conditions

1. The report is refer only to the sample tested and not applies to the bulk.
2. The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
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4. Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.
5. We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement
6. MoEF approved Lab by Govt. of India. From date. 09/02/2017 to 08/02/2022

Annexure II
Photographs of Rainwater
Harvesting system

Photographs of Rainwater Harvesting





Annexure III
Photographs of Piezometers

Photographs of piezometers



Annexure IV
Details and photographs of green belt

List of trees planted in Nira-Bhima Sahakari Sakhar Karkhana Ltd premises

Sr.No	Name of Trees	Amount
1	Coconut	500
2	Bottle Palm	200
3	Ficus Panda	150
4	Ficus Benjamina	150
5	Bottle Bush	200
6	Morpankhi	150
7	Karanda Red	100
8	Filicium	100
9	Legistonia	100
10	Taboniya	100
11	Tamarind	6000
12	Rain Tree	300
13	Kashid	100
14	Karanj	300
15	Mango	300
16	Chikoo	50
17	Gauva	50
18	Custard Apple	50
19	Anjeer	50
20	Aragpam	200
21	Lemon	50
22	Jambhul	100
23	Rampal	50
24	Veporbeya	150
25	Latana	2000
26	Varbena	100
27	Daisy	500
28	Ekjora	100
29	Tagar	500
30	Chitrak	100
31	Starlight	100
32	Saptparni	200
33	Tablepan	100
34	Pudika Chafa	50
35	Rose Mis	1000
36	Jarvand	100
37	Christmas Tree	50
38	Christmas Tree	50
39	Cotton	100
40	Sayapas	50

41	Tapan	50
42	Shevanti	50
43	Jarbera	100
44	Pedoniya	50
45	Golden Dured	10000
46	Batikakleaf	10000
47	Kanari Pakar	5000
48	Almond	50
49	Awala	300
50	Nilgiri	5000
51	Suru	500
52	Gulmohar	250
53	Silver Sik	100
54	Amboli	100
55	Bougainvillea	2000
56	Kadu Limb	300
57	Kalak Bamboo	200
58	Lily	50
59	Yovaka	50
	Total	48750

**PHOTOGRAPHS OF GREEN BELT DEVELOPMENT AT NIRA- BHIMA SAHAKARI SAKHAR KARKHANA LTD,
AT: SHAHAJINAGAR, TAL.: INDAPUR, DIST.: PUNE, MAHARASHTRA**



**PHOTOGRAPHS OF GREEN BELT DEVELOPMENT AT NIRA- BHIMA SAHAKARI SAKHAR KARKHANA LTD,
AT: SHAHAJINAGAR, TAL.: INDAPUR, DIST.: PUNE, MAHARASHTRA**



List of Trees Planted During Ongoing Monsoon Season June - July 2021

अ.	क.	झाडाचे नाव	नग
१.		केशर आंबा	३०
२.		खैया	५०
३.		गुलमोहोर	५०
४.		रेन ट्री	१००
५.		बकुळा	१००
६.		आरेगापाम	१०
७.		मोरपंखी	१०
८.		जटरोपा	१०
९.		चाफा	५०
		एकुण	४१०

New Plantation





Annexure V
**Sample copy of latest health check-up
report**

Date On. 24/01/2021

Medical Fitness Certificate

This is to certify that, I have carefully examined employees of Nira Bhima S. S. K. Ltd., Shahajinagar, Tal-Indapur, Dist-Pune mentioned in the list enclosed herewith.


Date	Sr. No
25/01/2021	001 to 125
27/01/2021	126 to 250
28/01/2021	251 to 375
29/01/2021	376 to 540

Based on the examination, I certify that they are in good mental and physical health and are free from any physical defects which may interfere with their professional work.

Certificate issued on demand.

Please See-

List of employees enclosed herewith


Medical Officer
वैजिकीय अधिकारी पद-ए
उपजिल्हा रुग्णालय इंदापूर
जि.पुणे

निरा भिमा सहकारी साखर कारखाना लि., शहाजीनगर
ता. इंदापूर जि. पुणे
कर्मचारी यादी

अ.क्र.	नाव	विभाग	वय
१	मा. सुधीर गणपतराव गेंगे पाटील	डिस्टीलरी	५६
२	बागल आबासाहेब शिवाजी	संगणक	५३
३	सपकळ योगेश शामराव	संगणक	३९
४	गायकवाड दिनकर शंकर	अकौंट	५६
५	शिंदे सुभाष मारुती	अकौंट	५०
६	तोरसकर तुकाराम ज्ञानदेव	अकौंट	५४
७	देवकर संभाजी शिवाजी	अकौंट	५४
८	बागल नाना महादेव	अकौंट	५२
९	घोगरे अजिनाथ श्रीमंत	अकौंट	४८
१०	शिंदे मालोजीराजे वसंतराव	टार्गम लेबर	४२
११	कोडलकर राजाराम महादेव	गेस्ट हाऊस	४८
१२	ताड आबासाहेब रमेश	गेस्ट हाऊस	३५
१३	करगळ गणेश मारुती	गेस्ट हाऊस	५३
१४	पिसाळ भारत तुकाराम	वाहन	५०
१५	दिवटे सुभाष माणिकराव	पर्चेस	५८
१६	ढवळे सदिप बाजीराव	स्टोअर	४५
१७	मुलाणी मुख्तार शाहिस्तेखान	सिव्हील	३९
१८	धुमाळ दत्तात्रय राजाराम	सिव्हील	५०
१९	वाघेला महेश डाय्या	सिव्हील	४४
२०	कोरटकर तात्यासाहेब महादेव	शेती	४१
२१	मोहितें सग्राम गुलाबराव	शेती	४१
२२	वाघमोडे हरिषकुमार शिवाजी	शेती	४३
२३	लावंड अंकुश कृष्णा	शेती	४९
२४	निंबाळकर शामराव देवराव	शेती	४९
२५	पाटील भागवत खंडेराव	शेती	५३
२६	सपकळ विजय पाटलू	शेती	४९

अ.क्र.	नाव	विभाग	वय
२७	वांद्रे नामदेव तानाजी	के नयार्ड	४५
२८	चव्हाण सिताराम निवृत्ती	के नयार्ड	४४
२९	गिरमे गजेंद्र कृष्णकांत	इंजिनिअरींग	४९
३०	सावंत विजयकुमार ज्ञानदेव	इंजिनिअरींग	५४
३१	वीर गजेंद्र पांडुरंग	इंजिनिअरींग	५३
३२	खान निहालअहमंद मोहमदआयुब	इंजिनिअरींग	४९
३३	शिर्के लालासाो तुकाराम	इंजिनिअरींग	६०
३४	कुशवाहा नरमानंद भोला	इंजिनिअरींग	४८
३५	फडतरे प्रकाश नागू	इंजिनिअरींग	५१
३६	शेख निसार इस्माईल	इंजिनिअरींग	५०
३७	घोगरे हरिभाऊ मारुती	इंजिनिअरींग	५८
३८	आदमिले अनिल भिमराव	इंजिनिअरींग	५३
३९	शेख खुरपेसाब सैफनसाब	इंजिनिअरींग	४५
४०	इंगळे महेंद्र शामराव	इंजिनिअरींग	४४
४१	जगदाळे विठ्ठल शंकरराव	इंजिनिअरींग	५८
४२	घाडगे दिलीप शिवाजी	इंजिनिअरींग	५३
४३	शेख लतीब महमंद	इंजिनिअरींग	४३
४४	राम यतन मोसदी राम	इंजिनिअरींग	५३
४५	प्रसाद लालबच्चन सोहन	इंजिनिअरींग	४३
४६	प्रसाद भगवान रमायन	इंजिनिअरींग	४५
४७	यादव रामआयोध्या हरीहर	इंजिनिअरींग	४८
४८	प्रसाद मुन्सी मुन्नीलाल	इंजिनिअरींग	५०
४९	प्रसाद पपु मुद्रिका	इंजिनिअरींग	३७
५०	पाटील रविंद्र शिवाजी	इंजिनिअरींग	४५
५१	शेलार अनंत यशवंत	इंजिनिअरींग	४३
५२	सकुंडे कांतीलाल किसन	इंजिनिअरींग	४१
५३	शेंडगे राजेंद्र धुळा	इंजिनिअरींग	४१
५४	देवकर संताजी कृष्णाजी	इंजिनिअरींग	४६
५५	कळसाईत संजय बाळासाो	इंजिनिअरींग	४६

अ.क्र.	नाव	विभाग	वय
५६	शिंदे शिवशंकर बाबुराव	इंजिनिअरींग	३६
५७	कदम लालासो नारायण	इंजिनिअरींग	३९
५८	झगडे संदिप मल्हारी	इंजिनिअरींग	५४
५९	वाघमोडे सुरेश वसंतराव	उत्पादन	४२
६०	बनसुडे अनिल हरिभाऊ	उत्पादन	३८
६१	सावंत श्रीकांत नामदेव	उत्पादन	५६
६२	लोखडे लक्ष्मण काशिनाथ	उत्पादन	५८
६३	ठोंबरे भानुदास तुकाराम	उत्पादन	४७
६४	सावंत विलास सोपान	उत्पादन	५९
६५	देवकर आदिनाथ अर्जुन	सुरक्षा	५१
६६	भोसले अतुल दिलीप	डिस्टीलरी	३८
६७	मगर संतोष बाळासाहेब	डिस्टीलरी	४५
६८	मोरे विक्रमसिंह दादासाहेब	डिस्टीलरी	३९
६९	कारभार सोमनाथ रावसाहेब	डिस्टीलरी	५५
७०	गदादे सग्राम वसंतराव	डिस्टीलरी	५६
७१	देवकर गणेश वसंत	डिस्टीलरी	३७
७२	राऊत प्रितम विठ्ठल	डिस्टीलरी	४५
७३	गाईत्रे संतोष भिकाजी	डिस्टीलरी	३९
७४	माने-देशमुख ज्ञानेश्वर शिवाजीराव	डिस्टीलरी	३८
७५	चव्हाण अभिमन्यु अर्जुन	डिस्टीलरी	३९
७६	अनपट दादासो लक्ष्मण	डिस्टीलरी	३८
७७	रणवरे किरण प्रताप	डिस्टीलरी	४१
७८	सोनवले संदिप गुरुलिंग	केनयार्ड	४०
७९	कोळेकर महादेव दादा	इंजिनिअरींग	४६
८०	नायकुडे दिपक रमेश	उत्पादन	४४
८१	जाधव महादेव शिवराम	उत्पादन	४६
८२	माने संजय सुखदेव	उत्पादन	४६
८३	माने दिलीप शंकर	उत्पादन	५९
८४	रेडेकर सचिन सर्जेराव	उत्पादन	३६

अ.क्र.	नाव	विभाग	वय
८५	भोंग संदिप साधू	उत्पादन	४२
८६	मासाळ सुनिल सुखदेव	उत्पादन	४३
८७	शिंदे संतोष भानुदास	उत्पादन	४९
८८	वावरे शांतीलाल तात्याबा	उत्पादन	४२
८९	धायगुडे प्रकाश दादासा	उत्पादन	४३
९०	शिंदे चांगदेव सुखदेव	उत्पादन	४२
९१	पवार अनिल किसन	प्रशासन	३९
९२	देशमुख देवराज बबन	प्रशासन	३९
९३	शिंदे सुहास नामदेव	प्रशासन	३७
९४	रणमोडे विवेक विजय	प्रशासन	३५
९५	घोगरे सुभाष महावीर	प्रशासन	३५
९६	कुलकर्णी राजमणी प्रमोद	प्रशासन	४५
९७	घाडगे सतिश मारुती	टेलिफोन	४३
९८	जाधव संदिप सुरेश	टेलिफोन	४०
९९	घोगरे तानाजी हरिदास	संगणक	३७
१००	पालवे भारत आप्पासा	अकॉट	४५
१०१	गायकवाड राजेंद्र बापु	अकॉट	४१
१०२	जाधव अनिल मोहन	अकॉट	४१
१०३	बोडरे विजय रामचंद्र	अकॉट	४९
१०४	लावंड दत्तात्रय पोपट	अकॉट	४२
१०५	घोगरे विजय लक्ष्मण	अकॉट	४२
१०६	सुर्यवंशी किसन शंकर	अकॉट	५०
१०७	शिंदे दत्तात्रय बापू	अकॉट	४८
१०८	गायकवाड विनायक गणेश	अकॉट	४९
१०९	मगर हनुमंत उत्तम	अकॉट	४२
११०	सुनिल अर्जुन कदम	अकॉट	३३
१११	देवकाते जगन्नाथ रामचंद्र	टाईम लेबर	४५
११२	मोहिते मधुकर संभाजी	टाईम लेबर	३५
११३	बाबर रुपेश पोपट	टाईम लेबर	३६

अ.क्र.	नाव	विभाग	वय
११४	फरड संजय सुरेश	वाहन	४८
११५	काटे नवनाथ अजिनाथ	वाहन	४३
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४६८	गायकवाड कल्याण आण्णासाो	पर्यावरण	३९
४६९	वाघमोडे कुलदिप विष्णु	अकौंट	२५
४७०	चंद्रकांत भानुदास तुपे	सिव्हील	५१
४७१	अशोक आण्णा घाडगे	सिव्हील	४८
४७२	नानासाो सोपान घाडगे	सिव्हील	५३
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४७६	संतोष सदाशिव भोसले	सिव्हील	३५
४७७	कलपेश शिवाजी गिरमे	सिव्हील	४४
४७८	लक्ष्मण बापूराव ढवळे	सिव्हील	४४
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४८१	भोसले सागर विलास	इंजिनिअरींग	२९
४८२	काटे उत्तम नारायण	उत्पादन	४६
४८३	तानाजी रामचंद्र खाडे	सुरक्षा	५४
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४८५	डोंगरे अविनाश महादेव	प्रशासन	३०
४८६	निंबाळकर राणी अमोल	प्रशासन	२७
४८७	काळंगे अनिल महादेव	कोजनरेशन	३०
४८८	माने तुकाराम रामचंद्र	कोजनरेशन	३०
४८९	जाधव सागर जालिंदर	कोजनरेशन	२८
४९०	गायकवाड भारत तानाजी	उत्पादन	४९

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४९५	गोसावी चंद्रकांत हणुमंत	को-जन	४६
४९६	जगताप समाधान शामराव	उत्पादन	३५
४९७	भिसे ब्रम्हदेव ज्ञानदेव	उत्पादन	३५
४९८	पाटील पतंगराव भगवान	उत्पादन	४५
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५०२	नरळे नानासाहेब मारुती	उत्पादन	३३
५०३	निंबाळकर अभिजीत अशोक	उत्पादन	३८
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५२९	श्री. रोहित देविदास साळुंके	शेती	२४
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श्री. सुरज अशोक माने
 अ.क्र. ५४०
 वि. पुणे

(एस.जी. गोंगे पाटील)

प्र. कार्यकारी संचालक

Annexure VI
Photographs of fire extinguishers

**PHOTOGRAPHS OF FIRE FIGHTING SYSTEM AT NIRA- BHIMA SAHAKARI SAKHAR KARKHANA LTD,
AT: SHAHAJINAGAR, TAL.: INDAPUR, DIST.: PUNE, MAHARASHTRA**





Annexure VII
Photographs of silo for bottom ash
collector

Photograph showing Silo for bottom ash collection



Annexure VIII
Newspaper advertisement w. r. t. grant
of EC

PUBLIC NOTICE

WE ARE PLEASED TO INFORM THAT GOVERNMENT OF MAHARASHTRA, MUMBAI HAS ACCORDED AN "ENVIRONMENTAL CLEARANCE" VIDE ITS LETTER NO. SEAC-2012/CR.177/T.C.2 DATED 21.01.2014 FOR COGEN OF 18 MW BY "M/S. NIRA BHIMA SAHAKARI SAKHAR KARKHANA LTD" LOCATED AT SHAHAJINAGAR, POST- REDNI, TAL. INDAPUR, DIST. PUNE- 413114, MAHARASHTRA.

COPIES OF THE CLEARANCE LETTER ARE AVAILABLE WITH THE MAHARASHTRA POLLUTION CONTROL BOARD (MPCB), INDUSTRY AND MAY ALSO BE SEEN AT THE WEBSITE OF SEIAA, AT <http://se.maharashtra.gov.in>

FOR 'Nira-Bhima Sahakari Sakhar Karkhana Ltd, Managing Director

जाहीर निवेदन

आम्हाला कळविण्यास आनंद होतो की महाराष्ट्र शासन, मुंबई यांच्या दि. २१.०१.२०१४ रोजीच्या पत्र क्र. SEAC-2012/CR-177/TC2 द्वारे 'नीरा भीमा सहकारी साखर कारखाना लि.' यांच्या शहाजीनगर, रेडणी, ता. इंदापूर, जि. पुणे, महाराष्ट्र येथील १८ मे. वॉट सहवीज विस्तारीकरण प्रकल्पास पर्यावरण स्वीकृती मिळाली आहे.

संबंधित कागदपत्रांच्या प्रती महाराष्ट्र प्रदूषण नियंत्रण मंडळ, कारखाना आणि एसईएसी मंत्रालयाच्या खालील संकेतस्थळावर उपलब्ध आहेत.

<http://se.maharashtra.gov.in>

नीरा भीमा सहकारी साखर कारखाना लि. करिता कार्यकारी संचालक

दैनिक कॅसरी

शुक्रवार ९ मार्च २०२०

Annexure IX
Acknowledgment of previous Six
Monthly Compliance report

Six Monthly Compliance Report w.r.t M/s. Nira- Bhima Sahakari Sakhar Karkhana Ltd (NBSSKL), Located At: Shahajinagar, Po: Redni, Tal.: Indapur, Dist.: Pune, Maharashtra State

Equinox Projects <projects@equinoxenvi.com>
To: EC Compliance Maharashtra <ecompliance-mh@gov.in>

Tue, Feb 8, 2022 at 12:37 PM

Date: 07.02.2022

**To,
The Regional Officer,
MoEFCC; Western Region (WCZ),
Ground Floor, East Wing,
New Secretariat Building,
Civil Lines,
Nagpur – 440001**

Subject: Submission of Six monthly compliance reports Co-gen Unit and Distillery Unit.

Ref: 1. Environmental Clearance (EC) Letter F. No; J-11011/197/2008-IA-II(I) dated 17.03.2009.
2. Environmental Clearance (EC) Letter No. F. No. SEAC- 2012/CR-177/TC2 dated 21.01.2014.

Dear Sir,

This has reference to Environmental Clearance (EC) granted to our 18 MW Bagasse based Co-gen Unit and 30 KLPD Distillery Unit by **M/s. Nira- Bhima Sahakari Sakhar Karkhana Ltd (NBSSKL)**, At: Shahajinagar, Po: Redni, Tal.: Indapur, Dist.: Pune, Maharashtra State.

As per General Condition No. 10 in Distillery EC letter and General Condition No. 25 & 28 Co-gen EC letter, we are submitting a half yearly compliance report for the following period.

1. April 2021 to September 2021

We hope the details furnished by us are in accordance with your requirements.

Thanking you,

Yours faithfully,

M/s. Nira- Bhima Sahakari Sakhar Karkhana Ltd (NBSSKL),

 **Nira- Bhima Sahakari Sakhar Karkhana Ltd _Six M...**

 **Nira- Bhima Sahakari Sakhar Karkhana Ltd _Six Monthly compliace report_April 2021 to September 2021.pdf**
15339K

Annexure X

**Photograph of the pollutant levels
displayed on the board at the main
gate of the company and Company
Website**

PHOTOGRAPH SHOWING DISPLAY BOARD




Inbox - nirabhima@gmail.com x Nira-Bhima | Home x +

Not secure | nirabhimasugar.com


Apps MPCB Web Portal eParwana MPCB MPCB Home Pag... Nira-Bhima | Hom... Logbook | Mahara... Maitri Maharashtr... Gmail Convert Word to...

Career@NB5SK f t G+



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11:37 AM
04-Nov-20

Annexure XI
Environmental Statement



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000032872

Submitted Date

27-06-2021

PART A

Company Information

Company Name

NIRA BHIMA SSK LTD

Application UAN number

0000023708

Address

At.: Shahajinagar, PO: Redni, Tal.: Indapur,
Dist.: Pune

Plot no

340,341,344,345,346,347,348

Taluka

Indapur

Village

At.: Shahajinagar, PO: Redni

Capital Investment (In lakhs)

22134.65

Scale

L.S.I.

City

Indapur

Pincode

413114

Person Name

D. N. Markad

Designation

Managing Director

Telephone Number

9960165577

Fax Number

02111 270555

Email

nirabhima@gmail.com

Region

SRO-Pune I

Industry Category

Red

Industry Type

R12 Sugar (excluding
Khandsari)

Last Environmental statement submitted online

yes

Consent Number

No:-Format 1.0/CAC/UAN No. MPCB-
CONSENT-0000092455-2008001130

Consent Issue Date

28.08.2020

Consent Valid Upto

31.07.2021

Establishment Year

2001

Date of last environment statement submitted

May 31 2020 12:00:00:000AM

Industry Category Primary (STC Code) & Secondary (STC Code)

-

Product Information

Product Name

Sugar

Consent Quantity

75600

Actual Quantity

48983

UOM

MT/A

Electric power

77760000

46630363

Nos./Y

By-product Information

By Product Name

Molasses

Consent Quantity

26400

Actual Quantity

33100

UOM

MT/A

Pressmud	25800	17741	MT/A
Bagasse	270000	152670	MT/A

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
Cooling	312	312
Domestic	391	498
All others	40	40
Total	-	-
	743	850

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Trade effluent	375	490	CMD
Domestic effluent	8	8	CMD
Sewage effluent	8	8	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Sugar (White crystal)	0.198	0.349	MT/A
Molasses	3.410	10.22	MT/A
Bagasse	0.590	1.206	MT/A
Pressmud	0.621	1.032	MT/A

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Sugarcane	9.85	10.27	Ton/Ton

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Bagasse	179640	152670	MT/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged (Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
COD	111.72	228	-8.8.0	250	Within standard norms
BOD	39.20	80	-20.00	100	Within standard norms

TDS	498.82	1018	-51.52	2100	Within standard norms
TSS	33.32	68	-32.00	100	Within standard norms

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
SPM for 40 TPH Boiler	171.41	81.4	-45.73	150	Within standard norms
SPM for 66 TPH Boiler	255.54	88.7	-40.86	150	Within standard norms

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	0.017	0.025	KL/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	NA	NA	KL/A

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	NA	NA	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Fly/Boiler ash	1120.53	2290	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	NA	NA	MT/A

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	0.025	MT/A	Oily waste

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
--------------------------------------	---------------------------	------------	-------------------------------------

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
NA	NA	NA	NA	NA	NA	NA

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
NA	NA	NA

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
NA	NA	NA

Part-I

Any other particulars for improving the quality of the environment.

Particulars

(1) Installed online monitoring system. (2) Developed Green belt. (3) Achieved ZLD (4) Adopted 3-R Principle. (5) Submitted all document to MPCB & CPCB time to time. (6) No any Legal case

Name & Designation

D. N. Markad (Managing Director)

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000032872

Submitted On:

27-06-2021