

M/s Nirani Sugars Ltd
Kulali Cross, Mudhol Taluk, Bagalkot District

**COMPLIANCE REPORT TOWARDS
ENVIRONMENTAL CLEARANCE**

Prepared for

*Expansion of sugar crushing capacity from 10,000 TCD
to 15,000 TCD (i.e. additional 5,000 TCD) at Sy No. 166,
Kulali Cross, Mudhol Taluk, Bagalkot District*

1. Compliance to Environmental Clearance

Compliance to the conditions laid for “Expansion of sugar crushing capacity from 10,000 TCD to 15,000 TCD (i.e. additional 5,000 TCD)” at Sy No. 166, Kulali Cross, Mudhol Taluk, Bagalkot District by **M/s.Nirani Sugars Ltd**, while according Clearance from KSEIAA to Establish the Project. The project has got Environmental Clearance vide No. SEIAA: 24: IND: 2010 dated 19th June 2012.

Sl. No.	Specific Conditions	Compliance
1	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.	Noted and adhered to from time to time
2	Suitable Air Pollution Monitoring System (ESP/wet scrubber) and stacks of appropriate height as per the CPCB guidelines shall be provided to control emissions from various sources and shall ensure emissions levels below the KSPCB prescribed standards. Separate electric meters should be provided to the Air pollution Monitoring System and a separate log book maintained for the daily meter readings and monthly report submitted to concerned Regional Officer, KSPCB & Regional Director (Environment), Department of Ecology and Environment, Government of Karnataka, Belgaum. The production process should be interlocked with the Air Pollution control systems.	<p>ESPs installed at stacks to minimize the potential impacts associated with discharge of emissions to the ambient air environment for ESP details please refer Chapter No: 12</p> <p>Following pollution management practices such as:</p> <ul style="list-style-type: none"> - Asphaltting of internal roads please refer Chapter 41 - Internal speed limit restriction to 15 km/h refer Chapter No: 31 - Strengthening of existing green belt refer Chapter No: 15 - Chimney heights 85m AGL as per KSPCB norms refer Chapter No: 23 - Air quality & Stack monitoring has been scheduled for every month refer Chapter No: 17 - DG sets will be provided with sufficient stack heights refer Chapter No: 23 <p>Raw material loading & unloading carefully monitored</p>

		<p>Separate electric meters provided to the Air pollution Monitoring System and a separate log book maintained for the daily meter readingsreferChapter No: 44.</p> <p>Monitoring reports submitted to KSPCB periodicallyreferChapter No: 17.</p> <p>The production process will be interlocked with the Air Pollution control systemsreferChapter No: 45.</p>
3	ETP treated water shall not be let out of the industry's premises and should be used for farming/ gardening within.	<p>1235 KLD of Effluent will be generated from the complex of 15000 TCD and 62 MW cogeneration is treated in an ETP of 1500 KLD capacity.</p> <p>The treated effluent will be used for farmers for irrigation and green belt development. Farmers land details referChapter No: 24.</p> <p>, Green belt developed referChapter No: 15,</p> <p>Water generated & consumption details refer Chapter No: 34.</p>
4	Ash generated should be mixed with press mud and composted and used or given to farmers as manure. 100% utilization of ash should be ensured from the date of operation of the plant. The project authorities shall adhere to the provision stipulated in the fly ash notification of September, 1999 and as amended in August, 2003 in regard to fly ash utilization.	<p>600 tons/day of press mud, 0.5 tons/day of ETP sludge & 120 TPH of boiler ash mixed in the required proportions& used for composting and sold to farmers on concessional rate for their cane farming details referChapter No: 25.</p>
5	All the conditions stipulated in CFE/CFO issued by Karnataka State Pollution Control Board shall be strictly implemented.	Noted and adhered to all the conditions stipulated in the CFE/CFO
6	Baggase storage shall be done in such a way that it does not get air borne or fly around	Bagasse will be stored accordingly &used as fuel at boilers for power

	due to wind.	production at the co-gen unit Bagasse conveying will be through closed conveyor systems, Stored bagasse will sprayed with water over regularly water is sprayed to avoid flying.
7	No ground water shall be drawn at any stage. Treated effluents shall be used for sugar cane seed farm/green belt development. There should be no wastewater discharge from the plant.	Waste water is treated in 1500 TCD ETP & the treated effluent will be used solely for green belt development and farmers for irrigationreferChapter No: 15 & 34.
8	For controlling fugitive dust inside and outside the plant premises and vulnerable areas of the plant, dust extraction and suppression system and water sprinklers shall be ensured.	We have provided dust controller for coal crusher and sugar grader house photo copy of dust collector enclosed please referChapter No: 28 and dedicated water tank with spray nozzles provided to wetting of road at cane yard to suppress the dust.
9	Noise level shall be limited to 75 dBA. For people working in high noise area, requisite personal protective equipment like earplugs etc. shall be provided.	Certain Noise nuisance mitigating measures are implemented such as: <ul style="list-style-type: none"> - Specifications for procuring major noise generating machines / equipments, with built-in design requirements, to have minimum noise generation through acoustic enclosures. - Procurement of low noise generating equipment. - Sound proofing / glass paneling at critical operating stations and control rooms. - Periodic lubrication of machines and equipments avoiding frictional noise - Provision of Personnel Protective Equipments. - DG sets equipped with acoustic

		<p>enclosures.</p> <p>Noise levels are monitored on a monthly basis near the gate / boundary, at DG Set area, neighboring process units, and in office spaces monthly noise monitoring report submitted please referChapter No: 17.</p> <p>Noise producing activities will be restricted to daylight working hours</p>
10	<p>Minimum 33 % green area should be developed in the project area. Planting should done with tree density of about 1111 trees per ha. i.e. at an espacement of 3mX3m and cover with suitable local perennial tree species.</p>	<p>About 26 acre land used for green belt development in the factory campus in addition to above our staff & worker colony around and public road from Mudhol to Kulali&Mudhol to Jamkhandi is planted by our company and maintenance of same is taken care by our company, details of land utilized shown in plant layout drawing & photos enclosed please referChapter No: 15.</p>
11	<p>The gaseous emissions (SO₂, NO_x) and particulate matter from Boilers, D.G. sets and other processes shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control System adopted by the unit, the unit shall be immediately put out of operation under intimation to the Regional Officer, KSPCB & Regional Director (Environment), Department of Ecology and Environment, Government of Karnataka, Belgaum and shall not be restarted until the desired efficiency has</p>	<p>Boilers are installed O₂ analyzer to ensure the proper combustion, we are using bagasse hence SO₂& WO₂ generation is very negligible the bagasse analysis is enclosed please referChapter No: 17. Boilers are installed with ESP to reduce the particular matter exhaust chimney, monthly monitoring report of all stack is regularly sent to Regional Office KSPCB, Bagalkot& Regional Director (Environment) department of ecology & environment. The efficiency of system is very good.</p>

	been achieved.	
12	The Project authorities shall develop separate drain for storm and wastewater so that during rains, wastewater is not mixed with the storm water. The wastewater drains shall be provided with V-notch for monitoring the quantity of wastewater and the wastewater quantity shall be limited to the extent of permission of Karnataka State Pollution Control Board.	Garland channels provided to collect storm water in gutters, and divert it to a storage tank of 30 % of annual storm water collection capacity, further used for green belt development V-notches provided for monitoring the quantum of discharge of process effluents We have planned rain & storm water drain & collection system along with ground recharge pit of capacity 30% of annual storm water please refer Chapter No: 18.
13	The company shall take adequate steps to avoid odour nuisance from disposal of press mud and ETP sludge. The transportation of these shall be in covered means.	Nutrient rich press mud compost mixture will be distributed with utmost care covered vehicles provides for transportation.
14	The company shall develop covered storage areas for lime, sulphur, and Phosphoric acid to avoid mixing of the same with the rainwater for the existing sugarcane plant.	We have separate godown for storage of lime and sulphur, the capacity of lime godown 200 MT & Sulpher godown 200 MT We have obtained the sulphur storage license from Assistant Commissioner/ District Commissioner of Government of Karnataka please refer Chapter No: 30 , for various Govt. approvals & license obtained for storage of said materials.
15	Regular monitoring of the air and water quality should be carried out in and around the plant and records be maintained. Half-yearly reports shall be submitted to the SEIAA Karnataka, MOEF Regional Office, Bangalore, Department of Environment and Ecology, Government of Karnataka	Periodic monthly monitoring is being carried out for ambient air, water and noise quality in an around the project site. The records of which is kept in the office. the same is regularly being submitted to KSPCB please refer Chapter No: 17 for details.

	andRegional Director (Environment), Department of Ecology andEnvironment, Government of Karnataka, Belgaum.	
16	Adequate numbers of ground water quality monitoring stations shall be set up around the green belt area. These monitoring stations will be provided with piezo-meters. The company shall monitor six monthly, the soil and ground water quality in the plant and green belt area to ensure that there shall not be ground water pollution and reports submitted to Ministry's Regional Office/SPCB/CPCB, Department of Environment and Ecology, Government of Karnataka, Bangalore and the Regional Director (Environment) Department of Ecology and Environment, Government of Karnataka, Belgaum.	Ground water quality monitoring has been scheduled on a monthly basis, reports submitted to KSPCBrefer at Chapter No: 17 piezo meters installed in green belt area details shown in Chapter No: 36
17	Dedicated parking facility for loading and unloading of materials shall be provided in the factory premises. Unit shall develop and implement good traffic management system for their incoming and outgoing vehicles toavoid congestion on the public road.	Dedicated parking facilities are provided to trucks carrying the sugarcane. Good traffic management system followed. We have dedicated vehicle parking area for cane , sugar & other bulk material the photo copies are enclosed at Chapter No: 31 , for employee vehicle , separate parking arrangement made.
18	Provision shall be made for the housing for the construction laborers within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after	Provisions were made for housing of construction crew with facilities such as fuel for cooking and safe drinking water Septic tanks and soak pits provided to maintain sanitary conditions at the construction site. All construction wastes managed with utmost environmental concerns.

	the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	Pre employment medical examination will also be performed for construction crew.
19	The project proponent shall undertake medical camps/awareness programmes, farmers education programmes and Culture/sports programmes towards the corporate social commitment made vide letter dated 08.02.2012 with a total budget not less than Rs. 10 Lakhs and report be submitted to the Authority.	Social activities regularly conducted. Records of the same is kept in the office. We have dedicated team for conducting & organizing events such as medical camps, veterinary camps and seminars for farmers on agricultural developments, cane plantation & other cultural activities & sports. The various activities done during year 2016-17 is enclosed please refer Chapter No: 14 .
20	The Project authorities shall earmark at least 5 % of the total cost of the project towards the future corporate social responsibility and item-wise details along with time bound action plan shall be prepared and submitted to the Authority.	Social activities such as medical camps / awareness programmes, farmers education programmes and Culture / sports programmes are regularly conducted. Management kept separate fund for various events to be done under corporate social responsibilities, the various events conducted during year 2016-17 and expenditure details are enclosed in Chapter No: 14 and feature time bond action plan also enclosed refer Chapter No: 14 .
Sl. No.	GENERAL CONDITIONS	Compliance
1	A separate Environment Management Cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	We have Environment Health & Safety Management cell, EHS cell members list & designation and monthly meeting minutes enclosed please refer Chapter No: 16 .

2	The project authorities shall strictly adhere to the stipulations made by the Karnataka State Pollution Control Board (KSPCB).	The conditions laid in CFE/CFO are strictly adhered.
3	The Proponent shall obtain the construction material such as stones and jelly etc. only from the approved quarries and other construction material shall also be procured from the authorized agencies/traders.	Construction materials were procured from local approved agencies. List enclosed in Chapter No: 46.
4	The proponent shall obtain approval from the competent authorities for structural safety of the building due to earthquake, adequacy of firefighting equipment etc. as per the National Building Code (NBC) including protection measures for lightning etc.	All other approvals will be obtained as per requirements of NBC Factory building, Co-gen power house, Sugar godown, molasses tanks, office building etc. are designed & engineering by reputed architect consultant M/s. Amminbhavi&Hegade, Dharwad and during design of structure each queue & other safety factors considered. We have located the different types of fire extinguisher at different location at plant the list is enclosed in Chapter No: 32. We have fire hydrant system for coal yard, bagasse yard, TG hall, sugar & co-gen building & sugar godown details of photos are enclosed in Chapter No: 32
5	At no time, the emissions shall exceed the prescribed limits. In the event of 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.	We have made electrical interlock with boiler for tripping, if 2 field out of 3 tails interlock scheme is enclosed at Chapter No: 45.
6	No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA / Ministry of Environment and Forests as the case may be. In case of deviations or alterations in	Noted and we have already intimated the department with respect to the proposed expansion of sugar complex from 15000 TCD to 20000 TCD and cogeneration from 62 MW to 94 MW.

	<p>the project proposal from those submitted to this Authority for clearance, a fresh reference shall be made to the Authority to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.</p>	<p>Necessary clearances will be obtained before commissioning of the expansion. We have received EC from KSPCB for expansion of sugar plant from 15000 TCD to 20000 TCD and Co-generation from 62 MW to 94 MW copy enclosed refer Chapter No: 3</p>
7	<p>The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October 1994 and January 2000. Authorization from the KSPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.</p>	<p>All chemicals used as raw materials are stored and handled with utmost care and concern List of chemical used in sugar & co-gen process necessary license obtained is enclosed in Chapter No: 47.</p>
8	<p>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 Wastes (Management and Handling) Rules, 2003. Authorization from the KSPCB must be obtained for collection / treatment / storage / disposal of hazardous wastes.</p>	<p>Used oil from DG sets is the only hazardous waste generated, and used in cane carriers for lubrication externally Solid & Liquid waste generated and details of storage, handling & dispose is enclosed in Chapter No: 25.</p>
9	<p>Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating. A hybrid system or fully solar system for lighting and heating should be provided. Details in this regard should be submitted to the SEIAA.</p>	<p>We have installed solar lighting for streetlights , garden light & plant emergency light photo copies enclosed in Chapter No: 48.</p>
10	<p>The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods,</p>	<p>Noise control measures will be implemented effectively with periodic monitoring and compliance to stipulated ambient noise</p>

	silencers, enclosures etc on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	levels refer Chapter No: 40.
11	The project proponent shall also comply with all the environmental protection measures and safeguards as per the information provided.	We have adopted all environmental protection equipments like ESP, ETP, Online monitoring system, Dust collector etc.
12	The implementation of the project vis-a-vis environmental action plans shall be monitored by MoEF, Regional Office at Bangalore / KSPCB/CPCB and the Department of Environment & Ecology, Bangalore. A six monthly compliance status report shall be submitted to monitoring agencies.	Enclosed previous the six month compliance report refer Chapter No: 13.
13	The project proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA and copies of the clearance letter are available with the KSPCB and may also be seen at Website of the State Ecology and Environment department at http://www.seiaa.kar.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional Office of MoEF at Bangalore / KSPCB / CPCB / the Department of Ecology & Environment, Government of Karnataka, Bangalore.	Details of paper advertisement is enclosed , please refer Chapter No: 38.

14	The project authorities shall inform the Regional Office of MoEF at Bangalore / KSPCB / CPCB / the Department of Ecology & Environment, Government of Karnataka, Bangalore, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Details are enclosed at Chapter No: 49.
15	The SEIAA, Karnataka may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed
16	The SEIAA, Karnataka reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	Agreed
17	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	CFO is obtained for the existing sugar complex. Hazardous waste consent also obtained for disposing used oil from DG sets.
18	The issue of Environment Clearance doesn't confer any right to the project proponent to operate / run the project without obtaining statutory clearances / sanctions from all other concerned Authorities.	Agreed
19	Concealing factual data or submission of false / fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environmental (Protection) Act, 1986.	Agreed
20	Any appeal against this environmental	Agreed

	clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	
21	Officials from the Department of Environment and Ecology, Bangalore / Regional Office of MoEF, Bangalore who would be monitoring the implementation of Environmental safeguards should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF / SEIAA should be forwarded to the Regional Office of MoEF at Bangalore / KSPCB / CPCB / the Department of Ecology & Environment, Government of Karnataka, Bangalore.	We have provided all the documents required by the officials of MOEF , KSPCB & CPCB.
22	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.	Agreed
23	The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Agreed
24	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the	Following status Clearance enclosed referChapter No: 50. a) Approval of storage of diesel from Chief Controller of Explosive. b) Fire department. c) Civil aviation department clearance.

	competent authorities.	d) Forest conservation & wildlife protection department clearance.
25	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act 1986, the Public Liability (Insurance) Act 1991 and ETA Notification 2006.	The conditions laid in CFO is also complied.
26	Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it is found that construction of the project has been started without obtaining environmental clearance.	Agreed.