

Ref.No:PKDNNHKASSK/MFG./2016-17/

2200

Date :- 06/08/2016.

To,
Shri. Suresh Kumar Adapa,
Scientist 'D',
APCCF (Central),
Ministry of Environment, Forests and Climate change,
Govt.of India, Regional Office(WCZ),
Ground Floor, East Wing,Near Secretariat Bldg.,
Near Old VCA Stadium, Civil Lines,
NAGPUR – 440 001.
Email : sureshmoefnagpur@gmail.com

Respected Sir,

With reference to your mail we are submitting the details as below:

- 1) We have installed and connected to CPCB and MPCB server the online monitoring system for ETP password is hutatma,H@u#45t
- 2) Disaster management Plant is submitted to the Department of Environment and MPCB vide letter No.PKDNNHKASSK/MFG./2015-16/3346,dt.21/12/2015.
- 3) The waste disposal scheme is based on flood irrigation system for which we have 250 acres of land.
- 4) Environmental Status is regularly monitored once in a month. We collect stack, ambient noise and effluent samples of ETP. We also undertake the Environmental status of Ground water in the study area once in two to three years.
- 5) Continuous emission monitoring system has been installed to both the stacks and connected to CPCB and MPCB server password is hutatma_spm,H@u#89t
- 6) At present the pressmud is sold to the shareholders of the factory. As we propose to establish Distillery, the pressmud shall be utilised for composting.

We hope the above information would meet your requirement.

Thanking You,

Yours faithfully,

(N.L.Kapadnis.)
Managing Director.

c.c.to: Mfg./M.F./

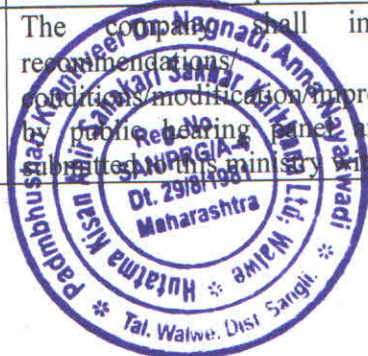
D:\B.J.Navale\B.J.Navale\B.J.Navale\2016-17\Mfg\Suresh Adapa, Regional Officer, Bhopal. - 6-8-2016..

**Padmabhushan Krantiveer Dr. Naganath Anna Naykwadi Hutatma Kisan
Ahir Sahkari Skhar Karkhana Ltd. Naganath Anna Nagar, Walwe Dist:
Sangli – 416313**

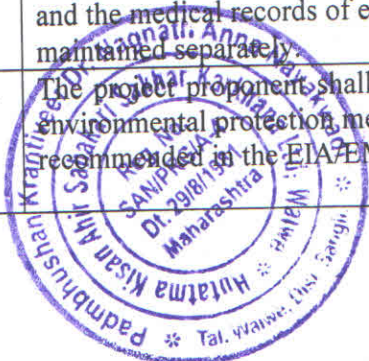
**Compliance of 30 KLPD Distillery as per EIA notification 2006 for the period 01/07/2016 to
31/12/2016.**

**Ref : Environment clearance Vide : F.No. J-11011/661/2007- IA II (i) Dated 17th September 2007
&extension validity letter Dt. 12th October 2015**

A.	<u>SPECIFIC CONDITIONS</u>	<u>COMPLIANCE</u>
i.	The company shall adopt continuous fermentation technology and ensure that the spent wash generation shall not exceed 240 m ³ /d. The spent wash shall be composted with press mud to achieve “zero discharge”. Land and other requirements for treatment of spent wash with press mud shall be as per the CPCB guidelines. The company shall earmark an area of 4.80 ha. For bio-composting, storage of press mud and finished products. The compost yard shall be made impervious as per the CPCB guidelines.	Complied
ii.	The company shall install Wet Scrubber and stack height as per CPCB / SPCB standards to control the emission from the bagasses fired boiler installed to achieve the particulate emission within the prescribed standards.	Implemented. Steam is taken from sugar factory boiler which are provided wet scrubber as APC equipment.
iii.	The spent wash shall be stored in impervious pucca lagoons. The spent wash lagoons shall have proper lining with HDPE and shall be kept in proper conditions to prevent ground water pollution. As per CPCB recommendation, storage shall not exceed 30 days capacity.	Spent wash storing lagoon are constructed as per CPCB guidelines
iv.	Adequate numbers of ground water quality monitoring stations by providing piezometers around the compost plant and project area shall be set up. Samplings and trend analysis monitoring must be made on monthly basis and report submitted to SPCB and Ministry.	Piezometers are being provided around the compost yard..
v.	The operation of distillery shall be restricted to 270 days and that it shall not operate during rainy season and /or whenever the ETP is not able to treat the effluent as per standards.	Distillery operation is restricted to 270 days. No Distillery operation during rainy season.
vi.	The company shall implement all the recommendations/ conditions/modification/improvements suggested public hearing panel and reports shall be submitted to this ministry within three months.	Public Hearing for Distillery was conducted in the year 2015 We have already submitted the compliance report to Ministry.



vii.	As reflected in the EIA / EMP, green belt of adequate width and density in 8.0 acres of plant area shall be provided to mitigate the effect of fugitive emission all around plant and compost yard as per CPCB guidelines in conditions with the local DFO.	20 % is completed as per CPCB guidelines & remaining 13% shall be developed within a period of 2 to 3 year.
B.	<u>GENERAL CONDITIONS :</u>	COMPLIANCE
i.	The industry shall that the treated effluent and stack emission from the unit are within the norms stipulated under EPA rules of SPCB whichever is more stringent. In case of process disturbances/ failure of pollution control equipment by the unit, respective units shall be shut down and shall not restarted until the control measures are rectified to achieve the desired efficiency.	Noted & shall be complied
ii.	No further expansion or modification in the plant be carried out without prior approval of the Ministry of Environment and Forest.	Noted.
iii.	Ambient Air Quality Stations shall be set up in the down wind direction as well as where maximum ground level concentration of SPM, SO ₂ , NO _x are anticipated in consultations with State Pollution Control Board.	Complied.
iv.	Adequate number of influent and effluent quality stations shall be set up in consultation with the State Pollution Control Board. Regular monitoring should be carried out for relevant parameters.	Complied.
v.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generations. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (Day Time) and 70 dBA (Night Time).	Area within limit. Complied.
vi.	Company shall adopt rain water harvesting measures to recharge the ground water.	Implemented.
vii.	Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employee shall be maintained separately.	Occupational health surveillance regularly carried out & record is maintained separately.
viii.	The project proponent shall also comply with all environmental protection measures and safeguards recommended in the EIA/EMP report.	Noted & being implemented.



ix.	A separate environmental management cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.	Provided.
x.	The project authorities shall requisite funds for both recurring and non recurring expenditure to implement the conditions stipulated by the Ministry of Environment and Forests as well as State Government along with the implementation schedule for any other purpose.	Budgetary provision of 5 % of the cost of project is earmarked for CSR activities. The local need is being identified & appropriate budgetary allocation shall be made.
xi.	The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's Regional Office at Bhopal / State pollution Control Board/ Central Pollution Control Board. A six monthly compliance status report along with the data shall be submitted to the monitoring agencies.	Noted & implemented. Six monthly compliance reports along with Data shall be submitted to Regional office Nagpur, CPCB & MPCB regularly.
xii.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by Ministry and copies of the clearance letter are available with the state Pollution Board/ Committee and may also be seen at Website of Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of 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 copy of the same shall be forwarded to the Regional Office.	We Received Copy of EC vide F. No. J-11011/661/2007-IA-II (I) Dated 12.10.2015 on 02 november 2015 & advertisement is published on 07 Nov. 2015 in Hindusthan Times & Times of India paper. Xerox copy of EC Received & advt. of public notice is enclosed.
xiii.	The Project Authorities shall inform the regional Office as well as the Ministry the date of financial closer and final approval of the Project by the concerned authorities and the date of start of land development work.	Date of Financial Closer is 31.03.2017 Date of Financial approval : 24.02.2016 Date of start of land development work. June 2016



**Padmabhushan Krantiveer Dr. Naganath Anna Naykwadi Hutatma Kisan Ahir Sahkari Skhar Karkhana
Ltd. Naganath Anna Nagar, Walwe Dist: Sangli – 416313**

Reg.: Compliance of Sugar 5000 TCD & 24 MW Environment clearances as per EIA notification 2006 for the period of 01.03.2017 to 30.06.2017

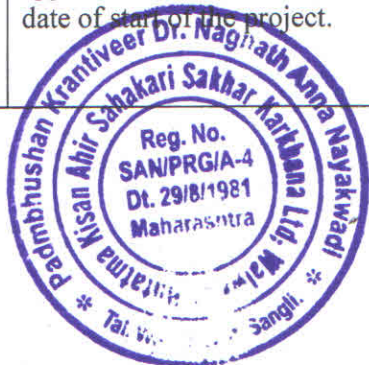
Ref: Environment clearance Vide: F. No. J-11011/197/2013-IA-II (I) Dated 22nd February 2017.

A.	<u>SPECIFIC CONDITIONS</u>	<u>COMPLIANCE</u>
i.	ESP along with stack of adequate height shall be provided to bagasses fired boiler to control particulate emission within 50mg/Nm.	Co-generation power plant is yet to be established, at which time ESP & sufficient stack height shall be provided. At present for 5000 TCD the existing boiler with wet scrubber would be adequate.
ii.	An action taken note (Duly certified by the 'RO, MoEF & CC) non complied points of Compliance Report of Regional Office, MoEF & CC Dated 10* August, 2016 be submitted.	Enclosed
iii.	Total fresh water requirement from Krishna River shall not exceed 3670 m ³ /day during season. No ground water shall be used.	At present sugar factory capacity is only being expanded & as such present water requirement is only 650 m ³ /day. Ground water is not used for process.
iv.	Water Consumption also to restricted to 100 liters/ton initially and further to 50 Liters/ton cane crushed in a time bound manner as per the CPCB guidelines.	Water requirement is only 650 m ³ /day which will be less than 150 liters /ton of cane crushed for 5000 TCD.
v.	Effluent generation shall not exceed 1180 m ³ /day during season. Effluent shall be treated in ETP, and domestic waste water treated in STP only. ETP should be designed to treat the BOD upto 30 mg/lit of effluent standard even in case of land disposal.	At present effluent generation is only 231.85 m ³ /day for existing sugar factory unit. Co-generation power plant is not yet implemented.
vi.	Process effluent /any waste shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Noted & complied.
vii.	Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area and compost yard shall be set up. Sampling and trend analysis monitoring must be made on monthly a basis and report submitted to SPCB and this Ministry. The ground water quality monitoring for pH, BOD, COD, Chloride, Sulphate and total dissolved solids shall be monitored. Sampling and trend analysis monitoring must be made on monthly basis and report submitted to the Ministry's Regional Office at Nagpur and SPCB	Distillery operated only for 17 Days for trial basis run. The ground water monitoring shall be undertaken during the month of October 2017 and analysis reports shall be sent along with comparison of the earlier monitoring results.
viii.	Bagasses stored shall be done in such way that it does not get air borne or fly around due to wind.	Beld Bagasses is only stored.
ix.	Boiler ash shall be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by	Fly ash from boiler is sold to the Bricks manufacturer on day to day basis & as such storage facility are

	flowing along with the storm water. Direct exposure of workers to fly ash & dust shall be avoided. Bagasses ash shall be stored separately	not provided.
x.	Fire fighting system shall be as per the norms and cover all areas where alcohol is produced, handled and stored. Provision of foam system for firefighting shall be made to control fire from the alcohol storage tank. DMP shall be implemented.	Firefighting arrangements have been provided in Alcohol storage ware houses by providing the Fire Hydrant. The two fire engines is also available with industry. DMP is fully implemented.
xi.	Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the regular medical test records of each employee shall be maintained separately.	Occupational health surveillance regularly carried out & record is maintained separately.
xii	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 to avoid congestion on the public road.	The dedicated parking facility is provided for loading and unloading. The traffic management is well planned as per R.T.O. regulations.
xiii.	As proposed, green belt over 33% of the total project area shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	At present The 20 % is completed as per CPCB guidelines & remaining 13% shall be developed within a period of 2 to 3 year.
xiv	All the commitments made during the Public Hearing/Public Consultation meeting held on 26th August, 2015 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.	All commitments have been fully implemented.
xv.	At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup /details shall be prepared and submitted to the Ministry's Regional Office at Nagpur. Implementation of such program shall be ensured accordingly in a time bound manner.	Budgetary provision of 5 % of the cost of project is earmarked for CSR activities. The local need is being identified & appropriate budgetary allocation shall be made & shall be submitted.
xvi.	Zero Liquid Discharge shall be ensured.	The industry has followed anaerobic Digester followed by MEE & Composting for Distillery unit to achieve zero liquid discharge. For sugar factory the treated effluent is utilized on 40 hector of land for irrigation.
xvii.	Continuous online (24 x7) monitoring to be installed. Data to be uploaded on company's website and provided to the respective RO of MHE & CC, CPCB and SPCB	Complied.
B.	GENERAL CONDITIONS:	COMPLIANCE
i.	The project authorities must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board, State	Noted.

	Government and any other statutory authority.	
ii.	No further expansion or modification in the plant be carried out without prior approval of the Ministry of Environment and Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Noted
iii.	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated..	Complied
iv.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 shall be followed	Followed.
v.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generations. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (Day Time) and 70 dBA (Night Time).	Complied.
vi.	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	Being implemented.
vii.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Complied.
viii.	The company shall also comply with all environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of Environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	Complied.
ix.	The company shall undertake all relevant measures for improving the socioeconomic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	Already implemented.
x.	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Implemented.
xi.	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Provided.

xii.	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.	Complied.
xiii.	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	Complied.
xiv.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF &CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company.	Shall be implemented regularly.
xv.	The environmental statement for each financial year ending 31 ..March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF & CC by e-mail.	Submitted regularly.
xvi.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in . This shall be advertised within seven days from the date of issue of clearance letter, at 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 concerned Regional Office of the Ministry.	Informed and copies is enclosed
xvii.	The project authorities shall inform the regional office as well as Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Date of Financial Closser is ----- Date of Financial approval 10/07/2017 Date of start of development work.August 2017



**Padmabhushan Krantiveer Dr. Naganath Anna Naykwadi Hutatma Kisan
Ahir Sahkari Skhar Karkhana Ltd. Naganath Anna Nagar, Walwe Dist:
Sangli – 416313**

Compliance of 30 KLPD Distillery as per EIA notification 2006 for the period of 01.01.2017 to 30.06.2017

**Ref : Environment clearance Vide : F.No. J-11011/661/2007- IA II (i) Dated 17th September 2007
&extension validity letter Dt. 12th October 2015**

A.	<u>SPECIFIC CONDITIONS</u>	<u>COMPLIANCE</u>
i.	The company shall adopt continuous fermentation technology and ensure that the spent wash generation shall not exceed 240 m ³ /d. The spent wash shall be composted with press mud to achieve "zero discharge". Land and other requirements for treatment of spent wash with press mud shall be as per the CPCB guidelines. The company shall earmark an area of 4.80 ha. For bio-composting, storage of press mud and finished products. The compost yard shall be made impervious as per the CPCB guidelines.	Fully complied. Photographs of process, Anaerobic Digester, MEE & Compost Yard are enclosed.
ii.	The company shall install Wet Scrubber and stack height as per CPCB / SPCB standards to control the emission from the bagasses fired boiler installed to achieve the particulate emission within the prescribed standards.	Implemented. Steam is taken from sugar factory boiler which are provided wet scrubber as APC equipment.
iii.	The spent wash shall be stored in impervious pucca lagoons. The spent wash lagoons shall have proper lining with HDPE and shall be kept in proper conditions to prevent ground water pollution. As per CPCB recommendation, storage shall not exceed 30 days capacity.	Spent wash storing lagoon are constructed as per CPCB guidelines. The photographs during construction as well as finished lagoon as evidence are enclosed.
iv.	Adequate numbers of ground water quality monitoring stations by providing piezometers around the compost plant and project area shall be set up. Samplings and trend analysis monitoring must be made on monthly basis and report submitted to SPCB and Ministry.	Piezometers are being provided as Distillery operation are only on trial basis.
v.	The operation of distillery shall be restricted to 270 days and that it shall not operate during rainy season and /or whenever the ETP is not able to treat the effluent as per standards.	Distillery shall not operate 270 days & also not during rainy season.
vi.	The company shall implement all the recommendations/conditions/modification/improvements suggested by public hearing panel and reports shall be submitted to this ministry within three months.	Public Hearing for Distillery was conducted in the year 13/02/2007. We have already submitted the compliance report to Ministry.

vii.	As reflected in the EIA / EMP, green belt of adequate width and density in 8.0 acres of plant area shall be provided to mitigate the effect of fugitive emission all around plant and compost yard as per CPCB guidelines in conditions with the local DFO.	The 20 % is completed as per CPCB guidelines & remaining 13% shall be developed within a period of 2 to 3 year.
B.	<u>GENERAL CONDITIONS :</u>	<u>COMPLIANCE</u>
i.	The industry shall that the treated effluent and stack emission from the unit are within the norms stipulated under EPA rules of SPCB whichever is more stringent. In case of process disturbances/ failure of pollution control equipment by the unit, respective units shall be shut down and shall not restarted until the control measures are rectified to achieve the desired efficiency.	Noted & shall be complied
ii.	No further expansion or modification in the plant be carried out without prior approval of the Ministry of Environment and Forest.	Noted.
iii.	Ambient Air Quality Stations shall be set up in the down wind direction as well as where maximum ground level concentration of SPM, SO ₂ , NO _x are anticipated in consultations with State Pollution Control Board.	Shall be complied.
iv.	Adequate number of influent and effluent quality stations shall be set up in consultation with the State Pollution Control Board. Regular monitoring should be carried out for relevant parameters.	Shall be complied.
v.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generations. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (Day Time) and 70 dBA (Night Time).	Area within limit. Shall be complied.
vi.	Company shall adopt rain water harvesting measures to recharge the ground water.	Being implemented.
vii.	Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employee shall be maintained separately.	Occupational health surveillance regularly carried out & record is maintained separately.
viii.	The project proponent shall also comply with all environmental protection measures and safeguards recommended in the EIA/EMP report.	Noted & being implemented.
ix.	A separate environmental management cell equipped with all fledged laboratory facilities	Provided.

	must be set up to carry out the environmental management and monitoring functions.	
x.	The project authorities shall requisite funds for both recurring and non recurring expenditure to implement the conditions stipulated by the Ministry of Environment and Forests as well as State Government along with the implementation schedule for any other purpose.	Budgetary provision of 5 % of the cost of project is earmarked for CSR activities. The local need is being identified & appropriate budgetary allocation shall be made & shall be submitted.
xi.	The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's Regional Office at Bhopal / State pollution Control Board/ Central Pollution Control Board. A six monthly compliance status report along with the data shall be submitted to the monitoring agencies.	Noted & implemented. Six monthly compliance reports along with Data shall be submitted to Regional office Nagpur, CPCB & MPCB regularly.
xii.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by Ministry and copies of the clearance letter are available with the state Pollution Board/ Committee and may also be seen at Website of Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of 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 copy of the same shall be forwarded to the Regional Office.	Informed & copy is enclosed.
xiii.	The Project Authorities shall inform the regional Office as well as the Ministry the date of financial closer and final approval of the Project by the concerned authorities and the date of start of land development work.	Date of Financial Closer is ----- Date of Financial approval 21/04/2015. Date of start of development work Jan - 2016



**Padmabhushan Krantiveer Dr. Naganath Anna Naykwadi Hutatma Kisan Ahir Sahkari Skhar
Karkhana Ltd. Naganath Anna Nagar, Walwe Dist: Sangli – 416313**

Reg.: Compliance of Sugar 5000 TCD & 24 MW Environment clearances as per EIA notification 2006 for the period of 01.07.2017 to 31.12.2017

Ref: Environment clearance Vide: F. No. J-11011/197/2013-IA-II (I) Dated 22nd February 2017.

A.	<u>SPECIFIC CONDITIONS</u>	<u>COMPLIANCE</u>
i.	ESP along with stack of adequate height shall be provided to bagasses fired boiler to control particulate emission within 50mg/Nm.	Co-generation power plant is yet to be established, at which time ESP & sufficient stack height shall be provided. At present for 5000 TCD the existing boiler with wet scrubber would be adequate.
ii.	An action taken note (Duly certified by the 'RO, MoEF & CC) non complied points of Compliance Report of Regional Office, MoEF & CC Dated 10* August, 2016 be submitted.	Enclosed
iii.	Total fresh water requirement from Krishna River shall not exceed 3670 m ³ /day during season. No ground water shall be used.	At present sugar factory capacity is only being expanded & as such present water requirement is only 650 m ³ /day. Ground water is not used for process.
iv.	Water Consumption also to restricted to 100 liters/ton initially and further to 50 Liters/ton cane crushed in a time bound manner as per the CPCB guidelines.	Water requirement is only 650 m ³ /day which will be less than 150 liters /ton of cane crushed for 5000 TCD.
v.	Effluent generation shall not exceed 1180 m ³ /day during season. Effluent shall be treated in ETP, and domestic waste water treated in STP only. ETP should be designed to treat the BOD upto 30 mg/lit of effluent standard even in case of land disposal.	At present effluent generation is only 231.85 m ³ /day for existing sugar factory unit. Co-generation power plant is not yet implemented.
vi.	Process effluent /any waste shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Noted & complied.
vii.	Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area and compost yard shall be set up. Sampling and trend analysis monitoring must be made on monthly a basis and report submitted to SPCB and this Ministry. The ground water quality monitoring for pH, BOD, COD, Chloride, Sulphate and total dissolved solids shall be monitored. Sampling and trend analysis monitoring must be made on monthly basis and report submitted to the Ministry's Regional Office at Nagpur and SPCB.	Distillery operated only for 17 Days for trial basis run. The ground water monitoring shall be undertaken during the month of October 2017 and analysis reports shall be sent along with comparison of the earlier monitoring results.
viii.	Bagasses stored shall be done in such way that it does not get air borne or fly from site to wind.	Beld Bagasses is only stored.
ix.	Boiler ash shall be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by	Fly ash from boiler is sold to the Bricks manufacturer on day to day basis & as such storage facility are

	flowing along with the storm water. Direct exposure of workers to fly ash & dust shall be avoided. Bagasses ash shall be stored separately	not provided.
x.	Fire fighting system shall be as per the norms and cover all areas where alcohol is produced, handled and stored. Provision of foam system for firefighting shall be made to control fire from the alcohol storage tank. DMP shall be implemented.	Firefighting arrangements have been provided in Alcohol storage ware houses by providing the Fire Hydrant. The two fire engines is also available with industry. DMP is fully implemented.
xi.	Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the regular medical test records of each employee shall be maintained separately.	Occupational health surveillance regularly carried out & record is maintained separately.
xii	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 to avoid congestion on the public road.	The dedicated parking facility is provided for loading and unloading. The traffic management is well planned as per R.T.O. regulations.
xiii.	As proposed, green belt over 33% of the total project area shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	At present The 20 % is completed as per CPCB guidelines & remaining 13% shall be developed within a period of 2 to 3 year.
xiv	All the commitments made during the Public Hearing/Public Consultation meeting held on 26th August, 2015 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.	All commitments have been fully implemented.
xv.	At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup /details shall be prepared and submitted to the Ministry's Regional Office at Nagpur. Implementation of such program shall be ensured accordingly in a time bound manner.	Budgetary provision of 5 % of the cost of project is earmarked for CSR activities. The local need is being identified & appropriate budgetary allocation shall be made & shall be submitted.
xvi.	Zero Liquid Discharge shall be ensured.	The industry has followed anaerobic Digester followed by MEE & Composting for Distillery unit to achieve zero liquid discharge. For sugar factory the treated effluent is utilized on 40 hector of land for irrigation.
xvii.	Continuous online (24 x7) monitoring to be installed. Data to be uploaded on company's website and provided to the respective RO, MOEF & CPCB and SPCB	Complied.
B.	GENERAL CONDITIONS	COMPLIANCE
i.	The project must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board, State	Noted.

	Government and any other statutory authority.	
ii.	No further expansion or modification in the plant be carried out without prior approval of the Ministry of Environment and Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Noted
iii.	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated..	Complied
iv.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 shall be followed	Followed.
v.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generations. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (Day Time) and 70 dBA (Night Time).	Complied.
vi.	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	Being implemented.
vii.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Complied.
viii.	The company shall also comply with all environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of Environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	Complied.
ix.	The company shall undertake all relevant measures for improving the socioeconomic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	Already implemented.
x.	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Implemented.
xi.	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Provided.

xii.	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.	Complied.
xiii.	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	Complied.
xiv.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF &CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company.	Shall be implemented regularly.
xv.	The environmental statement for each financial year ending 31 March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF & CC by e-mail.	Submitted regularly.
xvi.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in . This shall be advertised within seven days from the date of issue of clearance letter, at 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 concerned Regional Office of the Ministry.	Informed and copies is enclosed
xvii.	The project authorities shall inform the regional office as well as Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Date of Financial Closer is ----- Date of Financial approval 10/07/2017 Date of start of development work. August 2017



**Padmabhushan Krantiveer Dr. Naganath Anna Naykwadi Hutatma Kisan
Ahir Sahkari Skhar Karkhana Ltd. Naganath Anna Nagar, Walwe Dist:
Sangli – 416313**

Compliance of 30 KLPD Distillery as per EIA notification 2006 for the period of 01.07.2017 to 31.12.2017

**Ref : Environment clearance Vide : F.No. J-11011/661/2007- IA II (i) Dated 17th September 2007
&extension validity letter Dt. 12th October 2015**

A.	<u>SPECIFIC CONDITIONS</u>	<u>COMPLIANCE</u>
i.	The company shall adopt continuous fermentation technology and ensure that the spent wash generation shall not exceed 240 m ³ /d. The spent wash shall be composted with press mud to achieve "zero discharge". Land and other requirements for treatment of spent wash with press mud shall be as per the CPCB guidelines. The company shall earmark an area of 4.80 ha. For bio-composting, storage of press mud and finished products. The compost yard shall be made impervious as per the CPCB guidelines.	Fully complied. Photographs of process, Anaerobic Digester, MEE & Compost Yard are enclosed.
ii.	The company shall install Wet Scrubber and stack height as per CPCB / SPCB standards to control the emission from the bagasses fired boiler installed to achieve the particulate emission within the prescribed standards.	Implemented. Steam is taken from sugar factory boiler which are provided wet scrubber as APC equipment.
iii.	The spent wash shall be stored in impervious pucca lagoons. The spent wash lagoons shall have proper lining with HDPE and shall be kept in proper conditions to prevent ground water pollution. As per CPCB recommendation, storage shall not exceed 30 days capacity.	Spent wash storing lagoon are constructed as per CPCB guidelines. The photographs during construction as well as finished lagoon as evidence are enclosed.
iv.	Adequate numbers of ground water quality monitoring stations by providing piezometers around the compost plant and project area shall be set up. Samplings and trend analysis monitoring must be made on monthly basis and report submitted to SPCB and Ministry.	Piezometers are being provided as Distillery operation are only on trial basis.
v.	The operation of distillery shall be restricted to 270 days and that it shall not operate during rainy season and /or whenever the ETP is not able to treat the effluent as per standards.	Distillery shall not operate 270 days & also not during rainy season.
vi.	The company shall implement all the recommendations/conditions/modification/improvements suggested by public hearing panel and reports shall be submitted to this ministry within three months.	Public Hearing for Distillery was conducted in the year 13/02/2007. We have already submitted the compliance report to Ministry.

vii.	As reflected in the EIA / EMP, green belt of adequate width and density in 8.0 acres of plant area shall be provided to mitigate the effect of fugitive emission all around plant and compost yard as per CPCB guidelines in conditions with the local DFO.	The 20 % is completed as per CPCB guidelines & remaining 13% shall be developed within a period of 2 to 3 year.
B.	GENERAL CONDITIONS :	COMPLIANCE
i.	The industry shall that the treated effluent and stack emission from the unit are within the norms stipulated under EPA rules of SPCB whichever is more stringent. In case of process disturbances/ failure of pollution control equipment by the unit, respective units shall be shut down and shall not restarted until the control measures are rectified to achieve the desired efficiency.	Noted & shall be complied
ii.	No further expansion or modification in the plant be carried out without prior approval of the Ministry of Environment and Forest.	Noted.
iii.	Ambient Air Quality Stations shall be set up in the down wind direction as well as where maximum ground level concentration of SPM, SO ₂ , NO _x are anticipated in consultations with State Pollution Control Board.	Shall be complied.
iv.	Adequate number of influent and effluent quality stations shall be set up in consultation with the State Pollution Control Board. Regular monitoring should be carried out for relevant parameters.	Shall be complied.
v.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generations. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (Day Time) and 70 dBA (Night Time).	Area within limit. Shall be complied.
vi.	Company shall adopt rain water harvesting measures to recharge the ground water.	Being implemented.
vii.	Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employee shall be maintained separately.	Occupational health surveillance regularly carried out & record is maintained separately.
viii.	The project proponent shall also comply with all environmental protection measures and safeguards recommended in the EIA/EMP report.	Noted & being implemented.
ix.	A separate environmental management cell equipped with full fledged laboratory facilities	Provided.



	must be set up to carry out the environmental management and monitoring functions.	
x.	The project authorities shall requisite funds for both recurring and non recurring expenditure to implement the conditions stipulated by the Ministry of Environment and Forests as well as State Government along with the implementation schedule for any other purpose.	Budgetary provision of 5 % of the cost of project is earmarked for CSR activities. The local need is being identified & appropriate budgetary allocation shall be made & shall be submitted.
xi.	The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's Regional Office at Bhopal / State pollution Control Board/ Central Pollution Control Board. A six monthly compliance status report along with the data shall be submitted to the monitoring agencies.	Noted & implemented. Six monthly compliance reports along with Data shall be submitted to Regional office Nagpur, CPCB & MPCB regularly.
xii.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by Ministry and copies of the clearance letter are available with the state Pollution Board/ Committee and may also be seen at Website of Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of 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 copy of the same shall be forwarded to the Regional Office.	Informed & copy is enclosed.
xiii.	The Project Authorities shall inform the regional Office as well as the Ministry the date of financial closer and final approval of the Project by the concerned authorities and the date of start of land development work.	Date of Financial Closer is ----- Date of Financial approval 21/04/2015. Date of start of development work Jan - 2016



Ref. No. /MoEF-Nagpur/2017-18

Dt. 06-07-2018

To,
The Regional Officer,
APCCFC (Central)
Ministry of Environmental and Forests Govt. of India,
Regional Office (WCZ) Ground Floor East wing,
New Secretariat Bldg, near old VCA Stadium,
Civil lines, Nagpur – 440001.

Sub: ENVIRONMENTAL STATUS REPORT FOR THE PERIOD OF 2017-18

Ref 1: Compliance of Sugar 5000 TCD & 24 MW, Environment clearances as per EIA notification 2006. Environment clearance Vide: F. No. J-11011/197/2013-IA-II (I) Dated 22nd February 2017

Ref 2: Compliance of 30 KLPD Distillery as per EIA notification 2006, Environment clearance Vide : F.No. J-11011/661/2007- IA II (i) Dated 17th September 2007 &extension validity letter Dt. 12th October 2015

Dear Sir,

With Reference to the above subject matter **Environment clearance Vide No: F. No. J-11011/197/2013-IA-II (I) Dated 22nd February 2017, and Environment clearance Vide : F.No. J-11011/661/2007- IA II (i) Dated 17th September 2007 &extension validity letter Dt. 12th October 2015** we are submitting the status Report and Compliance of the conditions. This is to submit that the expansion of the sugar unit and commissioning of the Distillery unit are implemented. The Co-generation Power Plant is yet to be implemented.

Thanking You,

Yours faithfully,

Managing Director
Padmabhushan Krantiveer
Dr. Naganath Anna Naykwadi
Hutatma Kisan Ahir Sahkari Skhar Karkhana Ltd.

Padmabhushan Krantiveer Dr. Naganath Anna Naykwadi Hutatma Kisan Ahir Sahkari Skhar Karkhana Ltd. Naganath Anna Nagar, Walwe Dist: Sangli – 416313

Reg.: Compliance of Sugar 5000 TCD & 24 MW Environment clearances as per EIA notification 2006.

Ref: Environment clearance Vide: F. No. J-11011/197/2013-IA-II (I) Dated 22nd February 2017.

A.	<u>SPECIFIC CONDITIONS</u>	<u>COMPLIANCE</u>
i.	ESP along with stack of adequate height shall be provided to bagasses fired boiler to control particulate emission within 50mg/Nm.	Co-generation power plant is yet to be established, at which time ESP & sufficient stack height shall be provided. At present for 5000 TCD the existing boiler with wet scrubber is adequate.
ii.	An action taken note (Duly certified by the 'RO, MoEF & CC) non complied points of Compliance Report of Regional Office, MoEF & CC Dated 10* August, 2016 be submitted.	Enclosed
iii.	Total fresh water requirement from Krishna River shall not exceed 3670 m ³ /day during season. No ground water shall be used.	At present sugar factory capacity is expanded & as such present water requirement is only 650 m ³ /day. Ground water is not required and not drawn.
iv.	Water Consumption also to restricted to 100 liters/ton initially and further to 50 Liters/ton cane crushed in a time bound manner as per the CPCB guidelines.	Water requirement is at present 650 m ³ /day which shall be reduced as per the guidelines of the CPCB in the next crushing season.
v.	Effluent generation shall not exceed 1180 m ³ /day during season. Effluent shall be treated in ETP, and domestic waste water treated in STP only. ETP should be designed to treat the BOD upto 30 mg/lit of effluent standard even in case of land disposal.	At present effluent generation is only 231.85 m ³ /day for existing Sugar unit. Co-generation power plant is not yet implemented.
vi.	Process effluent /any waste shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Noted & complied.
vii.	Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area and compost yard shall be set up. Sampling and trend analysis monitoring must be made on monthly a basis and report submitted to SPCB and this Ministry. The ground water quality monitoring for pH, BOD, COD, Chloride, Sulphate and total dissolved solids shall be monitored. Sampling and trend analysis monitoring must be made on monthly basis and report submitted to the Ministry's Regional Office at Nagpur and SPCB	Noted, Ground water quality monitoring reports are attached.
viii.	Bagasses stored shall be done in such way that it does not get air borne or fly around due to wind.	Bailed Bagasses is only stored.
ix.	Boiler ash shall be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust shall be avoided. Bagasses ash shall be stored separately	Fly ash from boiler is sold to the Bricks manufacturer on day to day basis & as such storage facilities are not provided.
x.	Fire fighting system shall be as per the norms and cover all	Firefighting arrangements have

	areas where alcohol is produced, handled and stored. Provision of foam system for firefighting shall be made to control fire from the alcohol storage tank. DMP shall be implemented.	been provided in Alcohol storage ware houses by providing the Fire Hydrant. The two fire engines is also available with industry. DMP is fully implemented.
xi.	Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the regular medical test records of each employee shall be maintained separately.	Occupational health surveillance regularly carried out & record is maintained separately.
xii.	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 to avoid congestion on the public road.	The dedicated parking facility is provided for loading and unloading. The traffic management is well planned as per R.T.O. regulations.
xiii.	As proposed, green belt over 33% of the total project area shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	At present 20 % is completed as per CPCB guidelines & remaining 13% shall be developed within a period of 2 to 3 year.
xiv	All the commitments made during the Public Hearing/Public Consultation meeting held on 26th August, 2015 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.	All commitments have been fully implemented.
xv.	At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup /details shall be prepared and submitted to the Ministry's Regional Office at Nagpur. Implementation of such program shall be ensured accordingly in a time bound manner.	Budgetary provision of 5 % of the cost of project is earmarked for CSR activities. The local need is being identified & appropriate budgetary allocation shall be made & shall be submitted.
xvi.	Zero Liquid Discharge shall be ensured.	The industry has followed anaerobic Digester followed by MEE & Composting for Distillery unit to achieve zero liquid discharge. For sugar factory the treated effluent is utilized on 40 hector of land for irrigation.
xvii.	Continuous online (24 x7) monitoring to be installed. Data to be uploaded on company's website and provided to the respective RO of MoEF & CC, CPCB and SPCB	Complied.
B.	<u>GENERAL CONDITIONS :</u>	<u>COMPLIANCE</u>
i.	The project authorities must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board, State Government and any other statutory authority.	Noted.
ii.	No further expansion or modification in the plant be carried out without prior approval of the Ministry of Environment and Forest and Climate Change. In case of deviations or	Noted

	alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	
iii.	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated..	Complied
iv.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 shall be followed	Followed.
v.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generations. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (Day Time) and 70 dBA (Night Time).	Complied.
vi.	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	Being implemented.
vii.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Complied.
viii.	The company shall also comply with all environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of Environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	Complied.
ix.	The company shall undertake all relevant measures for improving the socioeconomic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	Already implemented.
x.	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Implemented.
xi.	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Provided.
xii.	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along	Complied.

	with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.	
xiii.	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	Complied.
xiv.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF &CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company.	Shall be implemented regularly.
xv.	The environmental statement for each financial year ending 31 „March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF & CC by e-mail.	Submitted regularly.
xvi.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in . This shall be advertised within seven days from the date of issue of clearance letter, at two local newspapers that are widely circulated i n the region of which one shall be i n the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Complied.
xvii.	The project authorities shall inform the regional office as well as Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Date of Financial Closer is Date of Financial approval 10.07.2017 Date of start of development work in august 2017

Compliance of 30 KLPD Distillery as per EIA notification 2006

**Ref : Environment clearance Vide : F.No. J-11011/661/2007- IA II (i) Dated 17th September 2007
&extension validity letter Dt. 12th October 2015**

A.	<u>SPECIFIC CONDITIONS</u>	<u>COMPLIANCE</u>
i.	The company shall adopt continuous fermentation technology and ensure that the spent wash generation shall not exceed 240 m ³ /d. The spent wash shall be composted with press mud to achieve “zero discharge”. Land and other requirements for treatment of spent wash with press mud shall be as per the CPCB guidelines. The company shall earmark an area of 4.80 ha. For bio-composting, storage of press mud and finished products. The compost yard shall be made impervious as per the CPCB guidelines.	Complied
ii.	The company shall install Wet Scrubber and stack height as per CPCB / SPCB standards to control the emission from the bagasses fired boiler installed to achieve the particulate emission within the prescribed standards.	Implemented. Steam is taken from sugar factory boiler which are provided wet scrubber as APC equipment.
iii.	The spent wash shall be stored in impervious pucca lagoons. The spent wash lagoons shall have proper lining with HDPE and shall be kept in proper conditions to prevent ground water pollution. As per CPCB recommendation, storage shall not exceed 30 days capacity.	Spent wash storage lagoon is constructed as per CPCB guidelines
iv.	Adequate numbers of ground water quality monitoring stations by providing piezometers around the compost plant and project area shall be set up. Samplings and trend analysis monitoring must be made on monthly basis and report submitted to SPCB and Ministry.	Piezometers are provided at the compost yard
v.	The operation of distillery shall be restricted to 270 days and that it shall not operate during rainy season and /or whenever the ETP is not able to treat the effluent as per standards.	Distillery operation is restricted to 270 days. Distillery shall not be operated during rainy season.
vi.	The company shall implement all the recommendations/ conditions/modification/improvements suggested by public hearing panel and reports shall be submitted to this ministry within three months.	Public Hearing for Distillery was conducted on 13/02/2007 . We have already submitted the compliance report to the Ministry.
vii.	As reflected in the EIA / EMP, green belt of adequate width and density in 8.0 acres of plant area shall be provided to mitigate the effect of fugitive emission all around plant and compost yard as per CPCB guidelines in conditions with the local DFO.	At present, 20 % of the area is covered under green belt and remaining 13% shall be covered within a period of 2 to 3 year as per the CPCB Guidelines.

B.	<u>GENERAL CONDITIONS :</u>	COMPLIANCE
i.	The industry shall that the treated effluent and stack emission from the unit are within the norms stipulated under EPA rules of SPCB whichever is more stringent. In case of process disturbances/ failure of pollution control equipment by the unit, respective units shall be shut down and shall not restarted until the control measures are rectified to achieve the desired efficiency.	Noted & shall be complied
ii.	No further expansion or modification in the plant be carried out without prior approval of the Ministry of Environment and Forest.	Noted.
iii.	Ambient Air Quality Stations shall be set up in the down wind direction as well as where maximum ground level concentration of SPM, SO ₂ , NO _x are anticipated in consultations with State Pollution Control Board.	Complied.
iv.	Adequate number of influent and effluent quality stations shall be set up in consultation with the State Pollution Control Board. Regular monitoring should be carried out for relevant parameters.	Complied.
v.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generations. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (Day Time) and 70 dBA (Night Time).	Area within limit. Complied.
vi.	Company shall adopt rain water harvesting measures to recharge the ground water.	Being implemented.
vii.	Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employee shall be maintained separately.	Occupational health surveillance regularly carried out & record is maintained separately.
viii.	The project proponent shall also comply with all environmental protection measures and safeguards recommended in the EIA/EMP report.	Noted & being implemented.
ix.	A separate environmental management cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.	Provided.
x.	The project authorities shall requisite funds for both recurring and non recurring expenditure to implement the conditions stipulated by the	Budgetary provision of 5 % of the cost of project is earmarked for CSR activities. The local need is being identified & appropriate

	Ministry of Environment and Forests as well as State Government along with the implementation schedule for any other purpose.	budgetary allocation shall be made & shall be submitted.
xi.	The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's Regional Office at Bhopal / State pollution Control Board/ Central Pollution Control Board. A six monthly compliance status report along with the data shall be submitted to the monitoring agencies.	Noted & implemented. Six monthly compliance reports along with Data shall be submitted to Regional office Nagpur, CPCB & MPCB regularly.
xii.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by Ministry and copies of the clearance letter are available with the state Pollution Board/ Committee and may also be seen at Website of Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of 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 copy of the same shall be forwarded to the Regional Office.	Informed & copy is enclosed.
xiii.	The Project Authorities shall inform the regional Office as well as the Ministry the date of financial closer and final approval of the Project by the concerned authorities and the date of start of land development work.	Date of Financial Closer is 07.11.2015 Date of Financial approval : 24.02.2016 Date of start of development work. June 2016

ANNEXURE I

TEST REPORT

Report Ref. No. : SEC/SM-CR-SAK/17-18	Nature of Sample: Stack 1
Name of Industry/Customer: Hutatma Kisan Ahir SSK Ltd.	Sample Collected By: SEC Lab
Address: Tal- Walva	
Name of Sample : Stack Monitoring	Period: Nov 2017 to Apr 2018

Sr. No	Parameter	Nov	Dec	Jan	Feb	Mar	Apr	Mean	Standard Deviation
1.	Stack Height (m)	30							
2.	Stack Diameter (m)								
	a) Top	8(ft.)							
	b) Bottom	12(ft.)							
3.	Boiler Type	Horse Shoe							
4.	Boiler Capacity(T/hr)	20 T/hr x 2							
5.	Fuel Used	Bagasse							
6.	Flue Gas Temp.(°C)	121	123	119	127	129	131	125	4.73
7.	Flue Gas Velocity (m/sec.)	8.1	8.19	7.85	8.12	8.7	9.2	8.36	0.5
8.	P.M. (mg/Nm³)	107	112	108	110	107	98	107	4.82
9.	NO _x (mg/Nm³)	61	62	59	55	52	47	56	5.8
10.	SO ₂ (mg/Nm³)	22	25	21	24	20	21	22.17	1.94

Remarks:

Stack of 30 m height was monitored from Nov 2017 to April 2018 (once in a Month). The Stack Monitoring Results indicate that all parameters are within CPCB Standards. From this we can conclude that APC equipments performance is Satisfactory.

Arithmetic Mean and Standard Deviation does not show much variation in the results, indicating industrial processes are stable and Boiler performance is Satisfactory.

TEST REPORT

Report Ref. No. : SEC/SM-CR-SAK/17-18	Nature of Sample: Stack 2
Name of Industry/Customer: Hutatma Kisan Ahir SSK Ltd.	Sample Collected By: SEC Lab
Address: Tal- Walva	
Name of Sample : Stack Monitoring	Period: Nov 2017 to Apr 2018

Sr. No	Parameter	Nov	Dec	Jan	Feb	Mar	Apr	Mean	Standard Deviation
1.	Stack Height (m)	40							
2.	Stack Diameter (m)								
	a) Top	2.25(m)							
	b) Bottom	3.00(m)							
3.	Boiler Type	Spreader Stoker							
4.	Boiler Capacity(T/hr)	35 T/hr							
5.	Fuel Used	Bagasse							
6.	Flue Gas Tem.(°C)	129	128	126	131	137	139	131.67	5.2
7.	Flue Gas Velocity (m/sec.)	8.3	8.35	8.18	8.42	9.2	9.8	8.71	0.65
8.	P.M. (mg/Nm³)	118	120	117	118	115	106	115.67	5.01
9.	NO _x (mg/Nm³)	63	65	62	60	54	49	58.83	6.11
10.	SO ₂ (mg/Nm³)	25	28	25	25	21	23	24.5	2.35

Remarks:

Stack of 40 m height was monitored from Nov 2017 to April 2018 (once in a Month). The Stack Monitoring Results indicate that all parameters are within CPCB Standards. From this we can conclude that APC equipments performance is Satisfactory.

Arithmetic Mean and Standard Deviation does not show much variation in the results, indicating industrial processes are stable and Boiler performance is Satisfactory.

TEST REPORT

Report Ref. No. : SEC/SM-CR-SAK/17-18	Nature of Sample: Ambient Air
Name of Industry/Customer: Hutatma Kisan Ahir SSK Ltd.	Sample Collected By: SEC Lab
Address: Tal- Walva	
Name of Sample : Ambient Air	Period: Nov 2017 to Apr 2018

Sr. No.	Sampling Station		PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	NO _x (µg/m ³)	SO ₂ (µg/m ³)	AQI
		Limits µg/m ³	60	100	80	80	
Nov- 2017							
1.	Main Gate		30	69	18	14.00	69
2.	Near ETP		22	56	12	10.00	56
Dec-2017							
1.	Main Gate		28	65	16.00	12.00	65
2.	Near ETP		21	52	10.00	08.00	52
Jan-2018							
1.	Main Gate		25	62	14.00	10.00	62
2.	Near ETP		23	55	12.00	08.00	55
Feb-2018							
1.	Main Gate		26	62	14.00	12.00	62
2.	Near ETP		22	57	10.00	08.00	57
Mar-2018							
1.	Main Gate		29	69	15.00	12.00	69
2.	Near ETP		25	61	12.00	10.00	61
Apr-2018							
1.	Main Gate		28	65	10.00	08.00	65
2.	Near ETP		32	72	12.00	10.00	72
Mean			25.916	62.083	12.916	10.166	
Standard Deviation			3.5280	6.2298	2.5390	1.992	

Remarks:

AQI Value	AQI Category	AQI Color
0 - 50	Good	Green
51 - 100	Moderate	Yellow
101 - 150	Unhealthy for Sensitive Groups	Orange
151 - 200	Unhealthy	Red
201 - 300	Very Unhealthy	Purple
301 - 500	Hazardous	Maroon

Ambient Air Quality was assessed from Nov 2017 to Apr 2018 (once in a Month). The results indicate that all the parameters are within prescribed limit. Air Quality Index was calculated, results indicate that air surrounding the Hutatma Kisan Ahir SSK Ltd. is of Moderate Quality. According to AQI the air surrounding Hutatma Kisan Ahir SSK Ltd. does not have any adverse effect on the Human Health.

<u>TEST REPORT</u>										
Report Ref. No. : SEC/SM-CR-SAK/17-18								Nature of Sample: Waste Water		
Name of Industry/Customer: Hutatma Kisan Ahir SSK Ltd.								Sample Collected By: SEC Lab		
Address: Tal- Walva										
Name of Sample : Sugar ETP Inlet								Period: Nov 2017 to Apr 2018		
Sr. No.	Test Parameter	Unit	Nov	Dec	Jan	Feb	Mar	Apr	Mean	Standard Deviation
1	pH	-	11.33	10.75	11.66	4.50	4.61	4.71	-	-
2	Chemical Oxygen Demand	mg/l	1346	1524	748	1129	1369	1460	1262.67	285.74
3	B.O.D. (3 days at 27°C)	mg/l	830	895	329	447	478	527	584.33	226.06
4	Total Dissolved Solids	mg/l	1434	1492	1130	1129	1215	1380	1296.67	159.07
5	Total Suspended Solids	mg/l	228	275	195	184	198	229	218.17	33.33
6	Chloride as Cl ⁻	mg/l	50	95	51	37	43	107	63.83	29.48
7	Sulphate as SO ₄	mg/l	62	27	76	83	91	218	92.83	65.32
8	Oil & Grease	mg/l	20	30	25	20	15	15	20.83	5.85

Remarks:

Sugar ETP Inlet parameters are tested for its characteristics once in a month from Nov- 2017 to Apr-2018. The variations in the parameters for every month are assessed by Standard Deviation. The Results show that there is no much variation in the influent Characteristics, indicating the Industrial Processes are stable.

TEST REPORT

Report Ref. No. : SEC/SM-CR-SAK/17-18	Nature of Sample: Waste Water
Name of Industry/Customer: Hutatma Kisan Ahir SSK Ltd.	Sample Collected By: SEC Lab
Address: Tal- Walva	
Name of Sample : Sugar ETP Outlet	Period: Nov 2017 to Apr 2018

Sr. No.	Test Parameter	Unit	Nov	Dec	Jan	Feb	Mar	Apr	Mean	Standard Deviation
1	pH	-	6.91	6.96	6.96	7.81	8.08	7.79	-	-
2	Chemical Oxygen Demand	mg/l	134	128	169	139	147	153	145	14.76
3	B.O.D. (3 days at 27°C)	mg/l	52	49	63	52	54	59	54.83	5.19
4	Total Dissolved Solids	mg/l	612	592	537	580	491	489	550.17	52.69
5	Total Suspended Solids	mg/l	56	52	65	56	52	55	56	4.77
6	Chloride as Cl ⁻	mg/l	24	40	42	23	29	62	36.67	14.75
7	Sulphate as SO ₄	mg/l	28	43	106	36	44	80	56.17	30.24
8	Oil & Grease	mg/l	ND	ND	ND	ND	ND	ND	--	--

Remarks:

Sugar ETP Outlet parameters are tested for its characteristics once in a month from Nov- 2017 to Apr-2018. The effluent characteristics are within prescribed limits of CPCB. The variations in the parameters for every month are assessed by Standard Deviation. The Results show that there is no much variation in the Effluent Characteristics, indicating ETP Performance is Satisfactory.

TEST REPORT

Report Ref. No. : SEC/SM-CR-SAK/17-18	Nature of Sample: Waste Water
Name of Industry/Customer: Hutatma Kisan Ahir SSK Ltd.	Sample Collected By: SEC Lab
Address: Tal- Walva	
Name of Sample : Raw Spentwash	Period: Nov-2017 & Apr-2018

Sr. No.	Test Parameter	Unit	Nov-2017	Apr-2018	Mean	Standard Deviation
1	pH	-	3.98	3.78	-	-
2	C.O.D	mg/l	1,42,800	1,44,630	143715	1294.005
3	B.O.D	mg/l	54,820	56,160	55490	947.5231
4	Total Solids	mg/l	1,62,500	1,69,510	166005	4956.819
5	Total Volatile Solids	mg/l	83,188	85,160	84174	1394.415
6	Total Inorganic Solids	mg/l	79,312	84,350	81831	3562.404
7	Chlorides	mg/l	6950	14,745	10848	5511.897
8	Sulphates	mg/l	7255	9960	8607.5	1912.724
9	K	mg/l	13810	14,050	13930	169.7056

Remarks:

Raw spentwash was tested for its chemical properties; results indicate that it contains very high concentrations of organic matter, suitable for biological treatment i.e. Anaerobic Treatment. Standard deviation does not show much variation, indicating industrial processes are stable.

TEST REPORT

Report Ref. No. : SEC/SM-CR-SAK/17-18	Nature of Sample: Waste Water
Name of Industry/Customer: Hutatma Kisan Ahir SSK Ltd.	Sample Collected By: SEC Lab
Address: Tal- Walva	
Name of Sample : Biogas Outlet (Distillery Division)	Period: Nov 2017 to Apr 2018

Sr. No.	Test Parameter	Unit	Standards	Nov-2017	Apr-2018	Mean	Standard Deviation
1	pH	-	---	7.41	7.84	-	-
2	Alkalinity	mg/l	>6000	8,412	13,620	11,016	3,683
3	Volatile Acids	mg/l	< 3000	4824	8650	6,737	2,705
4	C.O.D	mg/l	35000-50000	44,880	64,204	54,542	13,664
5	B.O.D	mg/l	5000-7000	6450	15,430	10,940	6,350
6	Total Solids	mg/l	60000-80000	69,200	92,710	80,955	16,624
7	Total Volatile Solids	mg/l	35000-45000	32,040	43,160	37,600	7,863
8	Total Inorganic Solids	mg/l	25000-35000	37,160	49,550	43,355	8,761
9	Chlorides	mg/l	6000 – 8000	6665	9247	7,956	1,826
10	Sulphates	mg/l	4000 – 6000	2539	4560	3,550	1,429
11	K	mg/l	---	12180	8900	10,540	2,319

Remarks:

Biogas plant effluent was tested chemically, Influent and Effluent results indicate that most of the organic matter was consumed in the process (anaerobic digestion). Almost all the parameters achieve the effluent standards except concentrations of volatile acids due to sufficient alkalinity. due to high buffering capacity it can be said that bio-digester performance is satisfactory.



पद्मभूषण क्रांतिवीर डॉ. नागनाथअण्णा नायकवडी हुतात्मा किसन अहिर सहकारी साखर कारखाना लि.;

नागनाथअण्णानगर, वाळवे, ता.वाळवा, जि.सांगली. (महाराष्ट्र राज्य) पिन : - ४१६ ३१३

Padmabhushan Krantiveer Dr. Nagnathanna Nayakawadi Hutatma Kisan Ahir Sahakari Sakhar Karkhana Ltd ;

Nagnathannanagar, Walwe, Tal. Walwa, Dist . Sangli (Maharashtra State) Pin- 416 313



E-mail : ast_hkl@bsnl.in, hutatmassk@gmail.com Web : hutatmasugars.com Phone : (02342) 267538 /40 /41 Fax : (02342) 267539

Ref. No. : PKDNNHKASSK / Sugar/Distillery / 2018-19 / 3783 Date:-17/01/2019

To,
The Regional Officer,
APCCFC (Central)
Ministry of Environmental and Forests Govt. of India,
Regional Office (WCZ) Ground Floor East wing,
New Secretariat Bldg, near old VCA Stadium,
Civil lines, Nagpur – 440001.

**Sub: ENVIRONMENTAL STATUS REPORT FOR THE PERIOD 01.07.2018 TO
31.12.2018 OF AY 2018-19**

Ref 1: Compliance of Sugar 5000 TCD & 24 MW, Environment clearances as per EIA notification 2006. Environment clearance Vide: F. No. J-11011/197/2013-IA-II (I) Dated 22nd February 2017

Ref 2: Compliance of 30 KLPD Distillery as per EIA notification 2006, Environment clearance Vide: F. No. J-11011/661/2007- IA II (i) Dated 17th September 2007 & extension validity letter Dt. 12th October 2015

Dear Sir,

With Reference to the above subject matter, we are submitting the environmental status Report and Compliance of Environmental Clearance conditions. The Co-generation Power Plant is yet to be implemented.

Thanking You,

Yours faithfully,

*Managing Director

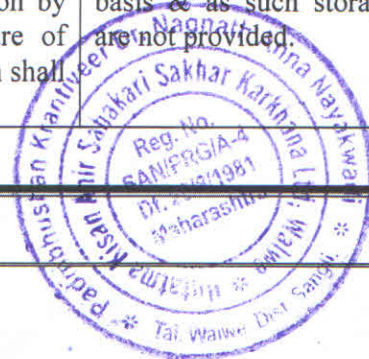
Padmabhushan Krantiveer Dr. Naganath Anna Naykwadi
Hutatma Kisan Ahir Sahkari Skhar Karkhana Ltd. Naganathaana Nagar,
Tal : Walwa Dist : Sangli 416 313

Padmabhushan Krantiveer Dr. Naganath Anna Naykwadi Hutatma Kisan Ahir Sahkari Sakhar Karkhana Ltd. Naganath Anna Nagar, Walwe Dist: Sangli – 416313

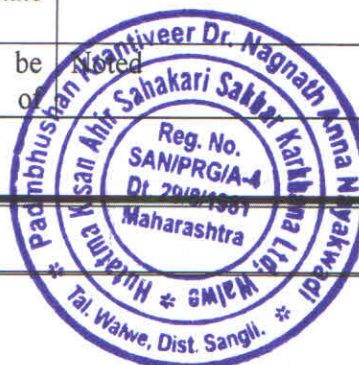
Reg.: Compliance of Sugar 5000 TCD & 24 MW Environment clearances as per EIA notification 2006.

Ref: Environment clearance Vide: F. No. J-11011/197/2013-IA-II (I) Dated 22nd February 2017.

A.	<u>SPECIFIC CONDITIONS</u>	<u>COMPLIANCE</u>
i.	ESP along with stack of adequate height shall be provided to bagasse fired boiler to control particulate emission within 50mg/Nm ³ .	Co-generation power plant is yet to be established, at which time ESP & sufficient stack height shall be provided. At present for 5000 TCD the existing boiler with wet scrubber is adequate.
ii.	An action taken note (Duly certified by the 'RO, MoEF & CC) non complied points of Compliance Report of Regional Office, MoEF & CC Dated 10* August, 2016 be submitted.	Enclosed
iii.	Total fresh water requirement from Krishna River shall not exceed 3670 m3/day during season. No ground water shall be used.	At present sugar factory capacity is expanded & as such present water requirement is only 450m ³ /day. Ground water is not required and not drawn.
iv.	Water Consumption also to be restricted to 100 liters/ton initially and further to 50 Liters/ton cane crushed in a time bound manner as per the CPCB guidelines.	Water requirement at present is 450m ³ /day.
v.	Effluent generation shall not exceed 1180 m3 /day during season. Effluent shall be treated in ETP, and domestic waste water treated in STP only. ETP should be designed to treat the BOD upto 30 mg/lit of effluent standard even in case of land disposal.	At present effluent generation is only 340m ³ /day. and 72m3/day for domestic effluent. Co-generation power plant is not yet implemented.
vi.	Process effluent /any waste shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Noted & complied.
vii.	Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area and compost yard shall be set up. Sampling and trend analysis monitoring must be made on monthly a basis and report submitted to SPCB and this Ministry. The ground water quality monitoring for pH, BOD, COD, Chloride, Sulphate and total dissolved solids shall be monitored. Sampling and trend analysis monitoring must be made on monthly basis and report submitted to the Ministry's Regional Office at Nagpur and SPCB	Noted, Same is installed and regularly monitored.
viii.	Biogases stored shall be done in such way that it does not get air borne or fly around due to wind.	Bailed Biogases is only stored.
ix.	Boiler ash shall be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust shall be avoided. Biogases ash shall be stored separately	Fly ash from boiler is sold to the Bricks manufacturer on day to day basis & as such storage facilities are not provided.



x.	Fire fighting system shall be as per the norms and cover all areas where alcohol is produced, handled and stored. Provision of foam system for firefighting shall be made to control fire from the alcohol storage tank. DMP shall be implemented.	Firefighting arrangements have been provided in Alcohol storage ware houses by providing the Fire Hydrant. The two fire engines are also available with industry. DMP is fully implemented.
xi.	Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the regular medical test records of each employee shall be maintained separately.	Occupational health surveillance regularly carried out.
xii.	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 to avoid congestion on the public road.	The dedicated parking facility is provided for loading and unloading. The traffic management is well planned as per R.T.O. regulations.
xiii.	As proposed, green belt over 33% of the total project area shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	At present 25 % is completed as per CPCB guidelines & remaining 8% shall be developed within a period of 2 to 3 year.
xiv.	All the commitments made during the Public Hearing/Public Consultation meeting held on 26 th August, 2015 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.	All commitments have been fully implemented.
xv.	At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office at Nagpur. Implementation of such program shall be ensured accordingly in a time bound manner.	Budgetary provision of 5 % of the cost of project is earmarked for CSR activities. The local need is being identified & appropriate budgetary allocation shall be made & shall be submitted.
xvi.	Zero Liquid Discharge shall be ensured.	The industry has followed anaerobic Digester followed by MEE & Composting for Distillery unit to achieve zero liquid discharge. For sugar factory the treated effluent is utilized on 40 hectares of land for irrigation.
xvii.	Continuous online (24 x7) monitoring to be installed. Data to be uploaded on company's website and provided to the respective RO of MoEF & CC, CPCB and SPCB	Complied.
B. GENERAL CONDITIONS :		COMPLIANCE
i.	The project authorities must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board, State Government and any other statutory authority.	Noted.
ii.	No further expansion or modification in the plant to be carried out without prior approval of the Ministry of	Noted.



	Environment and Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	
iii.	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated..	Complied
iv.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 shall be followed	Followed.
v.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generations. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (Day Time) and 70 dBA (Night Time).	Complied.
vi.	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	Implemented.
vii.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Complied.
viii.	The company shall also comply with all environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of Environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	Complied.
ix.	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	Already implemented.
x.	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Implemented.
xi.	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Provided.
xii.	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along	Complied.



	with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.	
xiii.	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.	Complied.
xiv.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF &CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company.	Shall be implemented regularly.
xv.	The environmental statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF & CC by e-mail.	Submitted regularly.
xvi.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in . This shall be advertised within seven days from the date of issue of clearance letter, at two local news papers 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 concerned Regional Office of the Ministry.	Complied
xvii.	The project authorities shall inform the regional office as well as Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Date of Financial Closser is 10.07.2017 Date of start of development work. Aug 2017



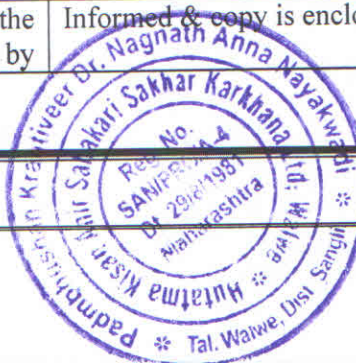
Compliance of 30 KLPD Distillery as per EIA notification 2006

**Ref : Environment clearance Vide : F.No. J-11011/661/2007- IA II (i) Dated 17th September 2007
&extension validity letter Dt. 12th October 2015**

A.	<u>SPECIFIC CONDITIONS</u>	<u>COMPLIANCE</u>
i.	The company shall adopt continuous fermentation technology and ensure that the spent wash generation shall not exceed 240m ³ /d. The spent wash shall be composted with press mud to achieve "zero discharge". Land and other requirements for treatment of spent wash with press mud shall be as per the CPCB guidelines. The company shall earmark an area of 4.80 ha. For bio-composting, storage of press mud and finished products. The compost yard shall be made impervious as per the CPCB guidelines.	Complied.
ii.	The company shall install Wet Scrubber and stack height as per CPCB / SPCB standards to control the emission from the bagasses fired boiler installed to achieve the particulate emission within the prescribed standards.	Implemented. Steam is taken from sugar factory boiler which are provided wet scrubber as APC equipment.
iii.	The spent wash shall be stored in impervious pucca lagoons. The spent wash lagoons shall have proper lining with HDPE and shall be kept in proper conditions to prevent ground water pollution. As per CPCB recommendation, storage shall not exceed 30 days capacity.	Spent wash storage lagoon is constructed as per CPCB guidelines
iv.	Adequate numbers of ground water quality monitoring stations by providing piezometers around the compost plant and project area shall be set up. Samplings and trend analysis monitoring must be made on monthly basis and report submitted to SPCB and Ministry.	Piezometers are provided at the compost yard, monthly basis report submitted to SPCB & Ministry.
v.	The operation of distillery shall be restricted to 270 days and that it shall not operate during rainy season and /or whenever the ETP is not able to treat the effluent as per standards.	Distillery operation is restricted to 270 days. Distillery shall not be operated during rainy season.
vi.	The company shall implement all the recommendations/conditions/modification/improvements suggested by public hearing panel and reports shall be submitted to this ministry within three months.	Public Hearing for Distillery was conducted on 13.02.2007 We have already submitted the compliance report to the Ministry, the copy of which is enclosed.
vii.	As reflected in the EIA/EMP, green belt of adequate width and density in 8.0 acres of plant area shall be provided to mitigate the effect of fugitive emission all around plant and compost yard as per CPCB guidelines in conditions with the local DFO.	At present, 25 % of the area is covered under green belt and remaining 8% shall be covered within a period of 2 to 3 year as per the CPCB Guidelines.
B.	<u>GENERAL CONDITIONS :</u>	<u>COMPLIANCE</u>
i.	The industry shall that the treated effluent and stack emission from the unit are within the norms stipulated under EPA rules of SPCB whichever is more stringent. In case of process disturbances/failure of pollution	Noted & shall be complied



	control equipment by the unit, respective units shall be shut down and shall not restarted until the control measures are rectified to achieve the desired efficiency.	
ii.	No further expansion or modification in the plant be carried out without prior approval of the Ministry of Environment and Forest.	Noted.
iii.	Ambient Air Quality Stations shall be set up in the down wind direction as well as where maximum ground level concentration of SPM, SO ₂ , NO _x are anticipated in consultations with State Pollution Control Board.	Complied.
iv.	Adequate number of influent and effluent quality stations shall be set up in consultation with the State Pollution Control Board. Regular monitoring should be carried out for relevant parameters.	Complied.
v.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generations. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (Day Time) and 70 dBA (Night Time).	Complied.
vi.	Company shall adopt rain water harvesting measures to recharge the ground water.	Implemented.
vii.	Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employee shall be maintained separately.	Occupational health surveillance regularly carried out & record is maintained separately.
viii.	The project proponent shall also comply with all environmental protection measures and safeguards recommended in the EIA/EMP report.	Noted & being implemented.
ix.	A separate environmental management cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.	Provided.
x.	The project authorities shall requisite funds for both recurring and non recurring expenditure to implement the conditions stipulated by the Ministry of Environment and Forests as well as State Government along with the implementation schedule for any other purpose.	Budgetary provision of 5 % of the cost of project is earmarked for CSR activities. The local need is being identified & appropriate budgetary allocation shall be made & shall be submitted.
xi.	The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's Regional Office at Bhopal / State pollution Control Board/ Central Pollution Control Board. A six monthly compliance status report along with the data shall be submitted to the monitoring agencies.	Noted & implemented. Six monthly compliance reports along with Data shall be submitted to Regional office Nagpur, CPCB & MPCB regularly.
xii.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by	Informed & copy is enclosed.



	Ministry and copies of the clearance letter are available with the state Pollution Board/ Committee and may also be seen at Website of Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of 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 copy of the same shall be forwarded to the Regional Office.	
xiii.	The Project Authorities shall inform the regional Office as well as the Ministry the date of financial closer and final approval of the Project by the concerned authorities and the date of start of land development work.	Date of Financial Closer is 07.11.2015 Date of Financial approval : 24.02.2016 Date of start of development work: June 2016



ANNEXURE I

Details of the sampling locations

Sampling station code	Location	Co-ordinates
Surface water		
SW1	Nagthane (Krishna River)	17° 1'14.79"N, 74°23'8.99"E
SW2	Shirgaon (Krishna River)	17° 1'44.70"N, 74°22'54.57"E
Ground water		
GW1	Project site: Private dug well near factory	17° 1'6.76"N, 74°22'7.16"E
GW2	Shirgaon : Borewell	17° 1'21"N, 74°22'36"E
GW3	Pundi: Handpump	17° 4'10"N, 74°21'53"E
GW4	Walwa: Handpump	17° 1'34"N, 74°22'16"E
GW5	Ahirewadi: Bore well	17° 0'26.54"N, 74°20'6.15"E
GW6	Gatadwadi: Borewell	16°59'58.17"N, 74°18'54.29"E
GW7	Bavachi: Dug well	16° 58'3"N, 74°22'13"E
GW8	Padavalwadi: Hand Pump	16°59'29.33"N, 74°21'27.11"E
GW9	Padavalwadi: Near Compost Yard	16°59'57.87"N 74°22'0.79"E
Soil		
S1	Project Location	17° 1'8.38"N, 74°22'18.26"E
S2	Shirgaon	17° 1'21"N, 74°22'36"E
S3	Pundi	17° 4'10"N, 74°21'53"E
S4	Walwa	17° 1'34"N, 74°22'16"E
S5	Ahirewadi	17° 0'26.54"N, 74°20'6.15"E
S6	Gatadwadi	16°59'58.17"N, 74°18'54.29"E
S7	Bavachi	16° 58'3"N, 74°22'13"E
S8	Padavalwadi	16°59'29.33"N, 74°21'27.11"E



TEST REPORT

Report Ref. No. : SEC/SM-CR-SAK/17-18	Nature of Sample: Water
Name of Industry/Customer: Hutatma Kisan Ahir SSK Ltd.	Sample Collected By: SEC Lab
Address: Walva-416313, (Dist) Sangli.	Date of sampling: 19 th Aug 2018.
Name of Sample : Surface Water Sample	End of Analysis: 24 th Aug 2018

Sr. No.	Parameters	SW1	SW2	Unit	IS:10500:Required Standards	
CHEMICAL POTABILITY					Permissible	Acceptable
1.	Biochemical Oxygen Demand	04	10	mg/l	N,S	N,S
2.	Chemical Oxygen Demand	15	37	mg/l	N,S	N,S
3.	pH at 25 °C	7.31	7.26	-	6.50 to 8.50	No Relaxation
4.	Temperature	29	29	°C	N.S.	N.S.
5.	Electrical Conductivity at 25 °C	160	150	µS/cm	N.S.	N.S.
6.	Turbidity	<1	<1	NTU	1	5
7.	Total Dissolved Solids	108	104	mg/l	500	2000
8.	Total Suspended Solids	110	108	mg/l	N.S.	N.S.
9.	Dissolved Oxygen	6.8	6.4	mg/l	N.S	N.S
10.	Acidity as CaCO ₃	<5	<5	mg/l	N.S.	N.S.
11.	Total Alkalinity as CaCO ₃	35.36	33.28	mg/l	200	600
12.	Total Hardness as CaCO ₃	54.04	48.03	mg/l	200	600
13.	Calcium as Ca	13.62	12.02	mg/l	75	200
14.	Magnesium as Mg	4.86	4.37	mg/l	30	100
15.	Chloride as Cl ⁻	11.82	13.30	mg/l	250	1000
16.	Sulphates as SO ₄	<10	<10	mg/l	200	400
17.	Nitrate as NO ₃	1.29	<1	mg/l	45	No Relaxation
18.	Fluoride as F	<0.1	<0.1	mg/l	1.0	1.5
19.	Total Phosphorous	<1	<1	mg/l	N.S.	N.S.
20.	Silica as SiO ₂	3.04	3.63	mg/l	N.S.	N.S.
21.	Phenol	<0.001	<0.001	mg/l	0.001	0.002
22.	Sodium as Na	06	07	mg/l	N.S.	N.S.
23.	Potassium as K	02	02	mg/l	N.S.	N.S.
24.	Hexavalent Chromium (as Cr ⁶⁺)	<0.02	<0.02	mg/l	N.S.	N.S.
25.	Iron (as Fe)	<0.05	<0.05	mg/l		No Relaxation



26	Copper (as Cu)	<0.04	<0.04	mg/l	0.05	1.5
27	Manganese as Mn	<0.1	<0.1	mg/l	0.1	0.3
28	Nickel	<0.01	<0.01	mg/l	0.01	No Relaxation
29	Zinc as Zn	<0.05	<0.05	mg/l	5	No Relaxation
30	chromium	<0.03	<0.03	mg/l	0.05	No Relaxation
31	lead	<0.01	<0.01	mg/l	0.01	No Relaxation
32	cadmium	<0.003	<0.003	mg/l	0.003	No Relaxation
BACTERIOLOGICAL POTABILITY						
01	Total Coliforms	500	900	MPN./100 ml	Shall not be present in any 100 ml sample	
02	Fecal coliform	300	300	MPN./100 ml	Shall not be present in any 100 ml sample	

Remark:

The results indicate that all the parameters are within prescribed limits, except MPN Presence of MPN indicates that there is a bacterial contamination, which may be due to wastewater intrusion in water and also domestic activities near the banks of river on upstream side, therefore it can be concluded that water in the Krishna River is not suitable for drinking purpose directly. It can be used for drinking purpose after conventional treatment.



TEST REPORT

Report Ref. No. : SEC/SM-CR-SAK/17-18	Nature of Sample: Water
Name of Industry/Customer: Hutatma Kisan Ahir SSK Ltd.	Sample Collected By: SEC Lab
Address: Walva-416313, (Dist) Sangli.	Date of sampling: 19 th Aug 2018.
Name of Sample : Ground Water Sample	End of Analysis: 24 th Aug 2018

Characteristic s	GW1	GW2	GW3	GW4	GW5	GW6	GW7	GW8	GW9	IS 10500:2012	
										Permissibl e	Acceptabl e
pH at 25 °C	7.44	7.38	7.51	7.46	7.63	7.50	7.34	7.56	7.65	6.5 - 8.5	No relaxation
Temp.	29	29	29	29	29	29	29	29	29	N.S.	N.S.
EC	1305	887	1881	1421	546.7	877.4	1292	3072	1374	N.S.	N.S.
Turbidity	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	5
TDS	1056	698	1522	1083	395.3	590.3	962	2196	1093	500	2000
TSS	105.8	70.2	152.4	108.5	395.5	59.1	96.5	219.8	109.5	N.S.	N.S.
Total Alkalinity as CaCO ₃	153.9 2	208	384.8	213.2	301.6	301.6	270.4	405.6	395.2	200	600
Total Hardness as CaCO ₃	570.4 5	360.2 8	460.3 6	450.3 6	480.3 8	1341.0 7	490.3 9	520.4 1	500.4	200	600
Calcium as Ca	144.2 8	64.12	72.14	64.12	56.11	184.36	92.18	65.12	76.15	75	200
Magnesium as Mg	51.05	48.62	68.06	70.49	82.65	213.92	63.20	87.51	75.36	30	100
Chloride as Cl ⁻	78.84	27.59	68.98	128.1 1	739.1 3	2020.2	137.9	344.9 2	86.72	250	1000
Sulphates as SO ₄	176.0 4	32.81	226.0 4	73.43	235.4 1	605.72	71.87	373.4 3	77.60	200	400
Nitrate as NO ₃	5.08	31.16	16.18	13.87	24.04	24.59	41.02	43.05	28.48	45	No relaxation
Fluoride	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	1.5
Total Phosphorous	<1	<1	<1	<1	<1	<1	<1	<1	<1	N.S.	N.S.
Silica as SiO ₂	21.93	17.98	35.37	29.05	60.8	91.89	32.01	55.92	51.97	N.S.	N.S.
Phenol	<0.00 1	<0.00 1	<0.00 1	<0.00 1	<0.00 1	<0.001	<0.00 1	<0.00 1	<0.00 1	0.001	0.002
Sodium	27	28	52	26	94	154	55	74	68	N.S.	N.S.
Potassium	09	9	14	08	22	66	10	18	15	N.S.	N.S.
Hexavalent Chromium (Cr ⁶⁺)	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01	<0.02	N.S.	N.S.
Iron (as Fe)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.3	No relaxation
Copper (as Cu)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.05	1.5



Manganese as Mn	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.3
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	No relaxation
Zinc as Zn	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	5	15
Chromium	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.05	No relaxation
Lead	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	No relaxation
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.003	No relaxation
Total coliforms	ND	ND	ND	ND	ND	ND	ND	ND	ND	Shall not be present in any 100 ml sample	
Fecal coliform	ND	ND	ND	ND	ND	ND	ND	ND	ND	Shall not be present in any 100 ml sample	

Remark:

From the results it can be said that all the parameters are within permissible limits. The water can be used for Drinking Purposes after conventional treatment. The water can directly be used for irrigation purpose.



TEST REPORT

Report Ref. No. : SEC/SM-CR-SAK/17-18				Nature of Sample: Waste Water	
Name of Industry/Customer: Hutatma Kisan Ahir SSK Ltd.				Sample Collected By: SEC Lab	
Address: Walva-416313, (Dist) Sangli.				Date of sampling: 19 th Aug 2018.	
Name of Sample : Nala water sample				End of Analysis: 24 th Aug 2018	
Sr. No.	Test Parameter	Unit	Result	Standards	Test Method
1	Color	Hazen	10	< 5	IS:3025 (P-4) 1983
2	Odor	--	Odorless	Unobjectionable	IS:3025 (P-5) 1983
3	pH	--	7.32	6.5 – 8.5	IS:3025 (P-11) 1983
4	Turbidity	NTU	7.7	< 5	IS:3025 (P-10) 1984
5	Total Alkalinity (as CaCO ₃)	mg/l	182	< 200	IS:3025 (P-23) 1986
6	Chemical Oxygen Demand	mg/l	30	--	IS:3025 (P-58) 2006
7	B.O.D. (3day's at 27°C)	mg/l	< 4	--	IS:3025 (P-44) 1993
8	Total Dissolved Solids	mg/l	210	< 500	IS:3025 (P-16) 1984
9	Chlorides (as Cl)	mg/l	25	< 250	IS:3025 (P-32) 1988
10	Sulphate (as SO ₄)	mg/l	37	< 200	IS:3025(P-24)1986
11	Hardness (as CaCO ₃)	mg/l	80	< 300	IS:3025 (P-21) 1983
12	Calcium (as Ca)	mg/l	20	< 75	IS:3025 (P-40) 1991
13	Magnesium (as Mg)	mg/l	7	< 30	IS:3025 (P-46) 1994
14	Electrical Conductivity	µmhos/cm	354	< 2100	IS:3025 (P-14) 1984

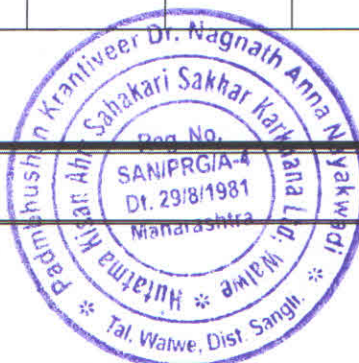
Remark: Nala water sampling was done in August 2018, the results indicate that all the parameters except Color and turbidity are within prescribed limits.



TEST REPORT

Report Ref. No. : SEC/SM-CR-SAK/17-18	Nature of Sample: Soil
Name of Industry/Customer: Hutatma Kisan Ahir SSK Ltd.	Sample Collected By: SEC Lab
Address: Walva-416313, (Dist) Sangli.	Date of sampling: 19 th Aug 2018.
Name of Sample : Soil sample	End of Analysis: 24 th Aug 2018

Characteristics	Unit	S1	S2	S3	S4	S5	S6	S7	S8
Texture	-	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam
Percentage of different components									
Sand	%	23	27	28	23	28	29	27	23
Silt	%	32	32	30	28	26	24	25	29
Clay	%	45	41	42	49	46	47	48	48
Soil Moisture	%	7.00	6.66	7.02	6.71	6.83	7.13	6.96	6.91
Bulk Density	g/cm ²	0.85	1.13	1.54	1.05	1.12	1.24	0.92	1.00
Water Holding Capacity	%	60.0	60.6	61.5	60.1	56.4	60.9	55.8	54.7
pH	--	7.62	7.92	7.77	8.02	7.98	8.04	7.45	7.90
Conductivity	μs/cm	502.4	616.8	459.8	648.2	518.6	579.8	624.8	678.4
Organic Carbon	%	0.85	0.79	0.92	0.97	0.76	0.82	0.83	0.90
Calcium (as Ca)	mg/kg	216.4	228.4	236.4	244.4	219.5	240.4	220.4	228.0
Magnesium (as Mg)	mg/kg	85.6	91.5	89.2	99.6	93.5	92.3	94.6	89.9
Available Nitrogen	kg/ha	200.3	202.4	188.0	175.3	188.2	213.0	175.5	162.9
Phosphorous (as P)	kg/ha	7.12	6.86	6.56	6.49	5.88	6.14	7.01	6.19
Potassium (as K)	kg/ha	268.6	274.9	275.5	212.5	244.2	268.1	255.2	229.7
Iron (as Fe)	mg/kg	3.5	4.2	3.75	4.65	3.82	4.13	4.02	3.33
Zinc (as Zn)	mg/kg	0.65	0.55	0.73	0.82	0.79	0.90	0.88	0.69
Copper (as Cu)	mg/kg	0.52	0.63	0.65	0.64	0.55	0.61	0.49	0.57
Sodium	mg/kg	31.8	32.3	34.6	33.5	36.9	30.2	29.6	36.2
Manganese (as Mn)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Chromium (as Cr)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel (as Ni)	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Cadmium (Cd)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (as Pb)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sodium Adsorption Ratio	-	2.79	2.54	2.70	2.55	2.88	2.78	2.58	2.84



Remark:

- All the samples having pH in range of 7.62 to 8.04
- Conductivity of the samples is in between 459.8 to 678.4 $\mu\text{mho/cm}$. in Village Upalve has the highest conductivity value.
- NPK concentration in all the soil samples are in the range of 162.9 to 200.3, 5.88 to 7.12 and 212.5 to 275.5 kg/ha respectively.
- Soil Organic Matter also acts the major sink and source of soil carbon. The concentration of the organic matter in the soil is 0.76 to 0.97 %.
- Heavy metals like Copper, Cadmium, Lead, Boron, Chromium, Manganese, and Molybdenum are not detected in all the samples.
- The soils of the region are good for agriculture.



TEST REPORT

Report Ref. No. : SEC/SM-CR-SAK/17-18		Nature of Sample: Stack Emission		
Name of Industry/Customer: Hutatma Kisan Ahir SSK Ltd.		Sample Collected By: SEC Lab		
Address: Walva-416313, (Dist) Sangli.		Date of sampling: 20 th Nov 2018.		
Name of Sample : Stack Monitoring (stack 1 - Old)		End of Analysis: 04 th Dec 2018		
Sr. No.	Parameter	Particulars of stack		
1.	Stack Height (m)	30.0		
2.	Stack Diameter (ft.)	Top- 8 & Bottom- 12		
3.	Boiler Capacity (T/hr)	2*20 TPH		
4.	Fuel Used	Bagasse		
5.	Flue Gas Tem.(° C)	123		
6.	Flue Gas Velocity (m/sec.)	9.2		
	Parameter	Results	Limits	Method used
7.	P.M. (mg/Nm ³)	108	150	IS 11255m(Part 1): 1985, Reaffirmed 2003
8.	NO _x (mg/Nm ³)	69	80	IS-11255 (Part 2): 1985 Reaffirmed 2009
9.	SO ₂ (mg/Nm ³)	22	80	IS-11255 (Part 7): 2005 Reaffirmed 2012

Remark: The stack monitoring results indicate that all the parameters are within prescribed limits, indicating the APC performance is satisfactory.



TEST REPORT

Report Ref. No. : SEC/SM-CR-SAK/17-18		Nature of Sample: Stack Emission		
Name of Industry/Customer: Hutatma Kisan Ahir SSK Ltd.		Sample Collected By: SEC Lab		
Address: Walva-416313, (Dist) Sangli.		Date of sampling: 20 th Nov 2018.		
Name of Sample : Stack Monitoring (stack 2 - New)		End of Analysis: 04 th Dec 2018		
Sr. No.	Parameter	Particulars of stack		
1.	Stack Height (m)	30.0		
2.	Stack Diameter (m)	Top- 2.25 & Bottom- 3.0		
3.	Boiler Capacity (T/hr)	1*35 TPH		
4.	Fuel Used	Bagasse		
5.	Flue Gas Tem.(° C)	128		
6.	Flue Gas Velocity (m/sec.)	9.5		
	Parameter	Results	Limits	Method used
7.	P.M. (mg/Nm ³)	119	150	IS 11255m(Part 1): 1985, Reaffirmed 2003
8.	NO _x (mg/Nm ³)	72	80	IS-11255 (Part 2): 1985 Reaffirmed 2009
9.	SO ₂ (mg/Nm ³)	28	80	IS-11255 (Part 7): 2005 Reaffirmed 2012

Remark: The stack monitoring results indicate that all the parameters are within prescribed limits, indicating the APC performance is satisfactory.



TEST REPORT

Report Ref. No. : SEC/SM-CR-SAK/17-18			Nature of Sample: Ambient Air			
Name of Industry/Customer: Hutatma Kisan Ahir SSK Ltd.			Sample Collected By: SEC Lab			
Address: Walva-416313, (Dist) Sangli.			Date of sampling: 20 th Nov 2018.			
Name of Sample : Ambient Air Monitoring			End of Analysis: 04 th Dec 2018			
Sr. No.	Sampling Station		PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)
		Limits	< 60 $\mu\text{g}/\text{m}^3$	< 100 $\mu\text{g}/\text{m}^3$	< 80 $\mu\text{g}/\text{m}^3$	< 80 $\mu\text{g}/\text{m}^3$
1.	Near Factory Main Gate		27	70	15.00	12.00
2.	Near Sugar ETP Plant		24	63	12.00	10.00

Remarks:

The results indicate that all the parameters are well within the prescribed limits.



TEST REPORT

Report Ref. No. : SEC/SM-CR-SAK/17-18			Nature of Sample: Waste Water	
Name of Industry/Customer: Hutatma Kisan Ahir SSK Ltd.			Sample Collected By: SEC Lab	
Address: Walva-416313, (Dist) Sangli.			Date of sampling: 20 th Nov 2018.	
Name of Sample : Sugar ETP Inlet			End of Analysis: 30 th Dec 2018	
Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH	6.15	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	1638	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	590	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	1719	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	238	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	67	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	84	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	10	mg/l	IS:3025 (P-39) 1991 (RA 2003)



TEST REPORT

Report Ref. No. : SEC/SM-CR-SAK/17-18				Nature of Sample: Waste Water	
Name of Industry/Customer: Hutatma Kisan Ahir SSK Ltd.				Sample Collected By: SEC Lab	
Address: Walva-416313, (Dist) Sangli.				Date of sampling: 20 th Nov 2018.	
Name of Sample : Sugar ETP Outlet				End of Analysis: 30 th Dec 2018	
Sr. No.	Test Parameter	Result	Unit	Standards	Test Method
1	pH	7.69	-	5.5-8.5	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	148	mg/l	250	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	59	mg/l	100	IS:3025 (P-44) 1993
4	Total Dissolved Solids	598	mg/l	2100	IS:3025(P-16)1984
5	Total Suspended Solids	57	mg/l	100	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	39	mg/l	600	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	57	mg/l	1000	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	10	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

The outlet concentrations are within prescribed limits of CPCB. Therefore it indicates that good performance of ETP.



TEST REPORT

Report Ref. No. : SEC/SM-CR-SAK/17-18			Nature of Sample: Waste Water		
Name of Industry/Customer: Hutatma Kisan Ahir SSK Ltd.			Sample Collected By: SEC Lab		
Address: Walva-416313, (Dist) Sangli.			Date of sampling: 20 th Nov 2018.		
Name of Sample : Piezometer Water Sample			End of Analysis: 30 th Dec 2018		
Sr. No.	Test Parameter	Unit	Result	IS:2296 Standards	Test Method
1	*Color	Hazen	< 5	--	IS:3025 (P-4) 1983
2	*Odor	--	Agreeable	--	IS:3025 (P-5) 1983
3	pH	--	8.26	6.5 – 8.5	IS:3025 (P-11) 1983
4	Turbidity	NTU	0.1	--	IS:3025 (P-10) 1984
5	Total Alkalinity (as CaCO ₃)	mg/l	304	--	IS:3025 (P-23) 1986
6	Chemical Oxygen Demand	mg/l	69	--	IS:3025 (P-58) 2006
7	B.O.D. (3day's at 27°C)	mg/l	10	--	IS:3025 (P-44) 1993
8	Total Dissolved Solids	mg/l	590	2100	IS:3025 (P-16) 1984
9	Chlorides (as Cl)	mg/l	98	600	IS:3025 (P-32) 1988
10	Hardness (as CaCO ₃)	mg/l	300	--	IS:3025 (P-21) 1983
11	Calcium (as Ca)	mg/l	54	--	IS:3025 (P-40) 1991
12	Magnesium (as Mg)	mg/l	41	--	IS:3025 (P-46) 1994
13	Sodium (as Na)	mg/l	77.0	--	IS:3025 (P-45) 1993
14	Potassium (as K)	mg/l	0.9	--	IS:3025 (P-45) 1993
15	% Na (Max)	%	35.47	60	By Calculation
16	Sodium Absorption Ratio	---	1.92	26	By Calculation
17	Residual Sodium Carbonate	meq/l	-0.03	2.5	By Calculation
18	Electrical Conductivity	µmhos/cm	976	2250	IS:3025 (P-14) 1984

Remarks:

The analysis results indicate that all the parameters are within prescribed limits.



TEST REPORT

Report Ref. No. : SEC/SM-CR-SAK/17-18			Nature of Sample: Compost	
Name of Industry/Customer: Hutatma Kisan Ahir SSK Ltd.			Sample Collected By: SEC Lab	
Address: Walva-416313, (Dist) Sangli.			Date of sampling: 20 th Nov 2018.	
Name of Sample : Ready Compost			End of Analysis: 30 th Dec 2018	
Sr. No.	Test Parameter	Result	Unit	Standards
1	Moisture	32.22	%	< 35
2	pH (Saturated)	7.78	--	6.5 – 8.5
3	Total Volatile Solids	56.89	%	60 – 65
4	Residual Ash	43.11	%	40 – 45
5	Nitrogen as N	2.06	%	>2.0
6	Phosphorus as P ₂ O ₅	1.44	%	>0.50
7	Potassium as K ₂ O	3.09	%	>3.0
8	Organic Carbon	29.15	%	20 – 30
9	C/N	14.15	--	< 17
Leachate Water (Filtrate)				
10	pH	7.91	--	6.5 – 8.5
11	C.O.D.	219	mg/l	< 250
12	B.O.D.	26	mg/l	< 30
13	Chlorides	114	mg/l	< 600
14	E. Conductivity	1490	μmhos/cm	< 2100

Remark:

1. Values expressed on dry weight basis of compost. Saturated water is obtained by washing of 1gm oven dried sample with 20ml d/w. Leachate water is obtained by washing 1gm oven dried sample with 100ml d/w
2. The results show that the Compost is of good quality, as it has all the nutrient contents as per the standards.

