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, <u>NAGPUR – 440 001.</u> Email : sureshmoefnagpur@gmail.com

Respected Sir,

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

 We have installed and connected to CPCB and MPCB server the online monitoring system for ETP password is hutatma,H@u#45t

SEGISTERED A.

- Disaster management Plant is submitted to the Department of Environment and MPCB vide letter No.PKDNNHKASSK/MFG./2015-16/3346,dt.21/12/2015.
- 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.
- 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
- 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,

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

Yours faithfully,

(N.L.Kapadnis.) Managing Director.

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

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

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 .	SPECIFIC CONDITIONS	COMPLIANCE
	The company shall adopt continuous fermentation	Complied
	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.	
i.	The company shall install Wet Scrubber and stack	Implemented. Steam is taken from sugar
	height as per CPCB / SPCB standards to control	factory boiler which are provided wet
	the emission from the bagasses fired boiler	scrubber as APC equipment.
	installed to achieve the particulate emission within	
ii.	the prescribed standards. The spent wash shall be stored in impervious	Spent wash storing lagoon are constructed as
	pucca lagoons. The spent wash lagoons shall have	per CPCB guidelines
	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.	D'any hoing provided around the
iv.	Adequate numbers of ground water quality	Piezometers are being provided around the compost yard
	monitoring stations by providing piezometers around the compost plant and project area shall be	compose yara
	set up. Samplings and trend analysis monitoring	
	must be made on monthly basis and report	
	submitted to SPCB and Ministry.	
v.	The operation of distillery shall be restricted to	Distillery operation is restricted to 270 days No Distillery operation during rainy season.
	270 days and that it shall not operate during rainy season and /or whenever the ETP is not able to	No Distinery operation during ramy season.
	treat the effluent as per standards.	
vi.	The compalignatell implement all the	Public Hearing for Distillery was conducted in
¥1.	recommendations 4	the year 2015 We have already submitted the
	ouditions/modification/inforovements suggested	compliance report to Ministry.
	by provincehearing panel and reports shall be	
	submitted with spin stry within three months.	
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	Tal. Walwe, Dist	

ii.	As reflected in the EIA / EMP, green belt of	20 % is completed as per CPCB guidelines &
	adequate width and density in 8.0 acres of plant	remaining 13% shall be developed within a
	area shall be provided to mitigate the effect of	period of 2 to 3 year.
	fugitive emission all around plant and compost	
	yard as per CPCB guidelines in conditions with	
	the local DFO.	
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8.	GENERAL CONDITIONS :	COMPLIANCE
•	The industry shall that the treated effluent and	Noted & shall be complied
	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.	
i.	No further expansion or modification in the plant	Noted.
	be carried out without prior approval of the	
	Ministry of Environment and Forest.	
ii.	Ambient Air Quality Stations shall be set up in the	Complied.
	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.	
v.	Adequate number of influent and effluent quality	Complied.
	stations shall be set up in consultation with the	
	State Pollution Control Board. Regular monitoring	
	should be carried out for relevant parameters.	the state of the Connectional
v.	The overall noise levels in and around the plant	Area within limit. Complied.
	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).	x 1 1
vi.	Company shall adopt rain water harvesting	Implemented.
	measures to recharge the ground water.	Occupational health surveillance regularly
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.	
viii.	The project proponent shall also comply with all	Noted & being implemented.
	Survisionmental profection measures and safeguards	
	Freedminended in the EIA7EMP report.	
	Freeminended in the EIA7EMP report.	
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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.
х.	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.	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 approval : 24.02.2016 Date of start of land development work. June



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.

А.	SPECIFIC CONDITIONS	COMPLIANCE
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 m33/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 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 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 by ground due to wind.	Beld Bagasses is only stored.
ix.	Boiler ash shall be stored separately as per CPCB guidelines so that it shall negadyersely abject the air quality, becoming air borne by WildRorawater regime during rainy season by Dt. 29/8/1981	Fly ash from boiler is sold to the Bricks manufacturer on day to day basis & as such storage facility are
Padmabh	ushan Krantiveer Di Nacegath Agna Karkwadi Nusatma Kisan Ahir Sah. Sakhar Karkhana Ltd, Nagana	athanna Nagar. Tal : Walve Dist : Sangli - 416313 🔹

	flowing along with the storm water. Direct exposure of	not provided.
	workers to fly ash & dust shall be avoided. Bagasses ash shall be stored separately	not provided.
х.	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. DMH 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 26t h 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
	Continuous caling (24-7)	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 Multines CC, CPCB and SPCB	Complied.
B.	GENERAL CONNETTONS: 3	COMPLIANCE
i.	The project authorities must spintly adhere to the stipulations made by the Mahammana Reductor Control Board. State	Noted.
	Ishan Krantiveer D. Waganath Alfiq Nauk Wadi. Hutterner Kisan Ahir Sah. Sakhar Karkhana Ltd, Nagana	

	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	Noted
	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.
х.	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 haboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Provided.

InH : weer Br., Naganath Anna Naykwadi Hutatma Kisan Ahir Sah. Sakhar Karkhana Ltd, Naganathanna Nagar. Tal : Walve Dist : Sangli - 416313 Padmabhushan Krant

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xii.	The company shall earmark sufficient funds towards capital	Complied.
	cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest	Compilation
	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.	
xiii.	A copy of the clearance letter shall be sent by the project	Complied.
	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.	Chall ha implemented requilerity
xiv.	The project proponent shall also submit six monthly reports	Shall be implemented regularly.
	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.	s
xv.	The environmental statement for each financial year ending 3	Submitted regularly.
	1March 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.	
xvi.	The project proponent shall inform the public that the project	Informed and copies is enclosed
	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.	
xvii.	The project authorities shall inform the regional office as	Date of Financial Closer is
	well as Ministry, the date of financial closure and final	Date of Financial approva
	approval of the project by the concerned authorities and the	10/07/2017
	date of star by the project.	Date of start of developmen
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Padmabhushan Krantiveer Dr. Naganath Anna Naykwadi Hutatma Kisan Ahir Sah. Sakhar Karkhana Ltd, Naganathanna Nagar. Tal : Walve Dist : Sangli - 416313

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

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

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.	SPECIFIC CONDITIONS	COMPLIANCE
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/ Nagar conditions/modification/improvements suggested by public meaning 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.
Padmabh	hushan Krantiveer Dir Nagamath Anna Anna Anna Kisan Ahir Sah. Sakhar Karl	khana Ltd, Naganathanna Nagar. Tal : Walve Dist : Sangli - 416313

	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. GENERAL CONDITIONS : 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. No further expansion or modification in the plant be carried out without prior approval of the Ministry of Environment and Forest. 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	guidelines & remaining 13% shall be developed within a period of 2 to 3 year. COMPLIANCE Noted & shall be complied
i. ii.	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. <u>GENERAL CONDITIONS :</u> 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. No further expansion or modification in the plant be carried out without prior approval of the Ministry of Environment and Forest. 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	developed within a period of 2 to 3 year. COMPLIANCE Noted & shall be complied
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ii.	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. No further expansion or modification in the plant be carried out without prior approval of the Ministry of Environment and Forest. 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	
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iii.	Ministry of Environment and Forest. 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	Shall be complied.
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	Shall be complied.
111.	down wind direction as well as where maximum ground level concentration of SPM, SO ₂ , NO _x are	Shall be complied.
	ground level concentration of SPM, SO ₂ , NO _x are	
	anticipated in consultations with State Pollution	
	· · · · · · · · · · · · · · · · · · ·	
	Control Board.	
iv.	Adequate number of influent and effluent quality	Shall be complied.
	stations shall be set up in consultation with the	
	State Pollution Control Board. Regular monitoring	
	should be carried out for relevant parameters.	
v.	The overall noise levels in and around the plant	Area within limit. Shall be complied.
	area shall be kept well within the standards by	20.
	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).	
	Company shall adopt rain water harvesting	Being implemented.
	measures to recharge the ground water.	
vii.	Occupational health surveillance programme shall	Occupational health surveillance regularly
	be undertaken as regular exercise for all the	carried out & record is maintained separately.
	employees. The first aid facilities in the	
	occupational health centre shall be strengthened	
	and the medical records of each employee shall be	
	maintained separately.	
viii.	The project proponent shall also comply with all	Noted & being implemented.
	environmental protection measures and safeguards recommended in the ErayEMP report.	
	recommender make EtA EMP report.	
ix.	A separate Non Weanniertal management cell	Provided.
	enumpeaniers After I leaged laboratory facilities	
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Dadauaht	P Permy and the set of	rkhana Ital Naganathanna Nagar, Tal - Walvo Diet - Sangli - 416212
Padmabhus	shan Krantweer W. Maganath Anna Neykwadi Hutatma Kisan Ahir Sah. Sakhar Kar	rknana Ltu, Maganathanna Magat, Tai ; Waive Dist ; Sangii - 410313
	TOWNER DICI	1

	must be set up to carry out the environmental management and monitoring functions.	
х.	The project authorities shall requisite funds for both recurring and non recurring expenditure to	Budgetary provision of 5 % of the cost of project is earmarked for CSR activities. The
	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.	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 Sah. Sakhar Karkhana Ltd, Naganathanna Nagar. Tal : Walve Dist : Sangli - 416313

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

<u>Reg.</u>: <u>Compliance of Sugar 5000 TCD & 24 MW Environment clearances as per EIA notification 2006 for the</u> 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.

А.	SPECIFIC CONDITIONS	COMPLIANCE
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 m33/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 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 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 and be done in such way that it does not get air borne of sty atomicative to with.	Beld Bagasses is only stored.
ix.	Boiler am shall be stored separately as per CPCB guidelines so that it shall not adversely of the me air quality, becoming air borne by wing 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

History, Dist.

	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.
х.	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. DMF 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 26t h 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 on MOEF website, CPCB and SPCB	Complied.
	GENERAL CONDITIONS	
B.	GENERAL CONDITIONS	COMPLIANCE
i.	The project inthorities must strictly adhere to the stipulations made by the Malazashira Perlution Control Board, State	Noted.

Padmabhushan Krantiveer Di, Naganath Anna Naykwadi Huatma Kisan Ahir Sah. Sakhar Karkhana Ltd, Naganathanna Nagar. Tal : Walve Dist : Sangli - 416313

	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	Noted
111.	any. 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 fieldged taboratory 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.	
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.	
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 3 1March 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.
cvi.	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.	Informed and copies is enclosed
vii.	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



ana Naykwadi Hutatma Kisan Ahir Sah. Sakhar Karkhana Ltd, Naganathanna Nagar. Tal : Walve Dist : Sangli - 416313

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

<u>Compliance of 30 KLPD Distillery as per EIA notification 2006 for the period of 01.07.2017 to</u> 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.	SPECIFIC CONDITIONS	COMPLIANCE
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	Fully complied. Photographs of process, Anaerobic Digester, MEE & Compost Yard are enclosed.
ii.	 made impervious as per the CPCB guidelines. 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 of the recommendation of the recomme	Public Hearing for Distillery was conducted in the year 13/02/2007. We have already submitted the compliance report to Ministry.

Padmabhushan Krantiveer Dr. Neganath Anna Naykwadi Hutatma Kisan Ahir Sah. Sakhar Karkhana Ltd, Naganathanna Nagar. Tal : Walve Dist : Sangli - 416313

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	Noted & being implemented.
ix.	recommended in the ElectMP report. A separate environmental management cell environmental biological aboratory facilities	Provided.
Padmabh	Maharashtra	rkhana Ltd, Naganathanna Nagar. Tal : Walve Dist : Sangli - 416313

	must be set up to carry out the environmental management and monitoring functions.	
х.	The project authorities shall requisite funds for both recurring and non recurring expenditure to implement the conditions stipulated by the	project is earmarked for CSR activities. The
	Ministry of Environment and Forests as well as State Government along with the implementation schedule for any other purpose.	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 Sah. Sakhar Karkhana Ltd, Naganathanna Nagar. Tal : Walve Dist : Sangli - 416313 🗤

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.

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 Envir	conment clearances as per EIA notification 2006.
Ref: Environment clearance Vide: F. No. J-11011	/197/2013-IA-II (I) Dated 22 nd February 2017.

Ref:	f: Environment clearance Vide: F. No. J-11011/197/2013-IA-II (I) Dated 22 nd February 2017.		
А.	SPECIFIC CONDITIONS	<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 m33/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 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 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.	
х.	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 26t h 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.
В.	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 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	Complied
	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	
iv.	The National Ambient Air Quality Emission Standards issued	Followed.
	by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 shall be followed	
v.	The overall noise levels in and around the plant area shall be	Complied.
	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).	
vi.	The Company shall harvest rainwater from the roof tops of	Being implemented.
	the buildings and storm water drains to recharge the ground	
	water and use the same water for the process activities of the	
vii.	project to conserve fresh water.	Complied
VII.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and	Complied.
	routine periodical medical examinations for all employees	
	shall be undertaken on regular basis. Training to all	
	employees on handling of chemicals shall be imparted.	
viii.	The company shall also comply with all environmental	Complied.
	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.	
ix.	The company shall undertake all relevant measures for	Already implemented.
	improving the socioeconomic conditions of the surrounding	
	area. CSR activities shall be undertaken by involving local	
	villages and administration.	Implemented
х.	The company shall undertake eco-developmental measures including community welfare measures in the project area for	Implemented.
	the overall improvement of the environment.	
xi.	A separate Environmental Management Cell equipped with	Provided.
	full fledged laboratory facilities shall be set up to carry out	
	the Environmental Management and Monitoring functions.	
xii.	The company shall earmark sufficient funds towards capital	Complied.
	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	
	and Chinate Change as well as the State Oovernment 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. A copy of the clearance letter shall be sent by the project	Complied
xiii.	proponent to concerned Panchayat, Zilla Parishad/Municipal	Complied.
	Corporation, Urban local Body and the local NGO, if any,	
	from whom suggestions/ representations, if any, were	
	received while processing the proposal.	
xiv.	The project proponent shall also submit six monthly reports	Shall be implemented regularly.
	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.	~
XV.	The environmental statement for each financial year ending 3	Submitted regularly.
	1March 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.	
xvi.	The project proponent shall inform the public that the project	Complied.
	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.	
xvii.	The project authorities shall inform the regional office as	Date of Financial Closer is
	well as Ministry, the date of financial closure and final	Date of Financial approval
	approval of the project by the concerned authorities and the	10.07.2017
	date of start of the project.	Date of start of development work
		in august 2017

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

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. 12 th October 2015

А.	SPECIFIC CONDITIONS	<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 .	GENERAL CONDITIONS :	COMPLIANCE
i.	The industry shall that the treated effluent and	Noted & shall be complied
	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.	
ii.	No further expansion or modification in the plant	Noted.
	be carried out without prior approval of the	
	Ministry of Environment and Forest.	
iii.	Ambient Air Quality Stations shall be set up in the	Complied.
	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.	
iv.	Adequate number of influent and effluent quality	Complied.
	stations shall be set up in consultation with the	
	State Pollution Control Board. Regular monitoring	
	should be carried out for relevant parameters.	
v.	The overall noise levels in and around the plant	Area within limit. Complied.
	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).	
vi.	Company shall adopt rain water harvesting	Being implemented.
	measures to recharge the ground water.	
vii.	Occupational health surveillance programme shall	Occupational health surveillance regularly
	be undertaken as regular exercise for all the	carried out & record is maintained separately.
	employees. The first aid facilities in the	
	occupational health centre shall be strengthened	
	and the medical records of each employee shall be	
	maintained separately.	
viii.	The project proponent shall also comply with all	Noted & being implemented.
	environmental protection measures and safeguards	
	recommended in the EIA/EMP report.	
ix.	A separate environmental management cell	Provided.
	equipped with full fledged laboratory facilities	
	must be set up to carry out the environmental	
	management and monitoring functions.	
X.	The project authorities shall requisite funds for	Budgetary provision of 5 % of the cost of
	both recurring and non recurring expenditure to	project is earmarked for CSR activities. The
	implement the conditions stipulated by the	local need is being identified & appropriate

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

	Ministry of Environment and Forests as well as	budgetery allocation shall be made by shall be
	5	budgetary allocation shall be made & shall be submitted.
	State Government along with the implementation	submitted.
<u> </u>	schedule for any other purpose.	
xi.	The implementation of the project vis-à-vis	Noted & implemented. Six monthly
	environmental action plans will be monitored by	compliance reports along with Data shall be
	Ministry's Regional Office at Bhopal / State	submitted to Regional office Nagpur, CPCB &
	pollution Control Board/ Central Pollution	MPCB regularly.
	Control Board. A six monthly compliance status	
	report along with the data shall be submitted to	
	the monitoring agencies.	
xii.	The Project Proponent shall inform the public that	Informed & copy is enclosed.
	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.	
xiii.	The Project Authorities shall inform the regional	Date of Financial Closer is 07.11.2015
	Office as well as the Ministry the date of financial	Date of Financial approval : 24.02.2016
	closer and final approval of the Project by the	Date of start of development work. June 2016
	concerned authorities and the date of start of land	L.
	development work.	

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	Sample Collected By: SEC Lab
Ltd.	
Address: Tal- Walva	
Name of Sample : Stack Monitoring	Period: Nov 2017 to Apr 2018

Sr. Standard Nov Parameter Dec Jan Feb Mar Apr Mean No Deviation Stack Height (m) 30 1. Stack Diameter (m) 2. a) Top 8(ft.) b) Bottom 12(ft.)3. Boiler Type Horse Shoe Boiler 4. 20 T/hr x 2 Capacity(T/hr)5. Fuel Used Bagasse Flue Gas Temp.(°C) 121 129 125 6. 123 119 127 131 4.73 Flue Gas Velocity 7. 8.1 8.19 7.85 8.12 8.7 9.2 8.36 0.5 (m/sec.) P.M. (mg/Nm^3) 107 107 4.82 8. 112 108 110 107 98 9. NO_X (mg/Nm³) 61 62 59 55 52 47 56 5.8 SO_2 (mg/Nm³) 24 21 22.17 1.94 10. 22 25 21 20

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/17-18Nature of Sample: Stack 2									Stack 2		
Nam	e of Industry/Custo	mer: H	lutatma	Kisan A	hir SSk	K	Sa	mple Co	llected By	SEC Lab	
Ltd.											
Addr	Address: Tal- Walva										
Nam	e of Sample : Stack	Monito	oring				Period: Nov 2017 to Apr 2018				
Sr. No	Parameter	Nov	Dec	Jan	Feb	Ma	ır	Apr	Mean	Standard Deviation	
1.	Stack Height (m)			•	40			•			
	Stack Diameter (m)										
2.	a) Top		2.25(m)								
	b) Bottom			3.0	00(m)						

	U) Dottom								
3.	Boiler Type			Spread					
4.	Boiler Capacity(T/hr)			35					
5.	Fuel Used			Ba	gasse				
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/Nm^3)	118	120	117	118	115	106	115.67	5.01
9.	NO_X (mg/Nm ³)	63	65	62	60	54	49	58.83	6.11
10.	SO_2 (mg/Nm ³)	25	28	25	25	21	23	24.5	2.35

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					
Repo	ort Ref. No. : Sl	EC/SM-CR-S	AK/17-18		Nature of	f Sample: A	mbient Air		
_	e of Industry/C			Ahir SSK		Sample Collected By: SEC Lab			
Ltd.	·				-	Ľ			
Addı	ress: Tal- Walva	a							
Nam	e of Sample : A	Ambient Air	Period: N	lov 2017 to A	Apr 2018				
			NOx	SO ₂					
Sr.	Sampling		PM _{2.5} (μg/m ³)	PM ₁₀ (μg/m ³)	$(\mu g/m^3)$	$(\mu g/m^3)$	AQI		
No.	Station	Limits $\mu g/m^3$	60	100	80	80	i Qi		
		µg/m²	Nov- 2017	,					
1.	Main	Gate	30	69	18	14.00	69		
2.	Near		22	56	10	10.00	56		
2.	Tteur	211	Dec-2017	50	12	10.00			
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	ЕТР	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 Dev	iation	3.5280	6.2298	2.5390	1.992			

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.

	TEST REPORT											
Rep	ort Ref. No. : SE	C/SM-	-CR-SA	K/17-18	}					-	Waste Water	
	Name of Industry/Customer: Hutatma Kisan Ahir SSK									ollected By	y: SEC Lab	
Ltd.												
Address: Tal- WalvaName of Sample : Sugar ETP InletPeriod: Nov 2017 to Apr 2018											Apr 2018	
Sr.	Test	ugui L						10	1104111	0, 201, 10	Standard	
Sr. No.	Parameter	Unit	Nov	Dec	Jan	Feb	M	ar	Apr	Mean	Deviation	
1	рН	-	11.33	10.75	11.66	4.50	4.6	51	4.71	-	-	
2	Chemical Oxygen Demand	mg/l	1346	1524	748	1129	13	69	1460	1262.67	285.74	
3	B.O.D. (3 days at 27°C)	mg/l	830	895	329	447	47	78	527	584.33	226.06	
4	Total Dissolved Solids	mg/l	1434	1492	1130	1129	12	15	1380	1296.67	159.07	
5	Total Suspended Solids	mg/l	228	275	195	184	19	98	229	218.17	33.33	
6	Chloride as Cl ⁻	mg/l	50	95	51	37	4	3	107	63.83	29.48	
7	Sulphate as SO ₄	mg/l	62	27	76	83	9	1	218	92.83	65.32	
8	Oil & Grease	mg/l	20	30	25	20	1	5	15	20.83	5.85	

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											
-	ort Ref. No. : SE									<u> </u>	Waste Water	
	Name of Industry/Customer: Hutatma Kisan Ahir SSK									ollected B	y: SEC Lab	
Ltd.												
	Address: Tal- WalvaName of Sample : Sugar ETP OutletPeriod: Nov 2017 to Apr 2018											
Nan	ie of Sample : St	igar E	I P Outle	et				Pe	rioa: No	ov 2017 to	Apr 2018	
Sr. No.	Test Parameter	Unit	Nov	Dec	Jan	Feb	Ma	ar	Apr	Mean	Standard Deviation	
1	pН	-	6.91	6.96	6.96	7.81	8.0	8	7.79	-	-	
2	Chemical Oxygen Demand	mg/l	134	128	169	139	14	7	153	145	14.76	
3	B.O.D. (3 days at 27°C)	mg/l	52	49	63	52	54	1	59	54.83	5.19	
4	Total Dissolved Solids	mg/l	612	592	537	580	49	1	489	550.17	52.69	
5	Total Suspended Solids	mg/l	56	52	65	56	52	2	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	106 36 44 80 56.17						
8	Oil & Grease	mg/l	ND	ND	ND	ND	NI)	ND			

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	Sample Collected By: SEC Lab
Ltd.	
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

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					
Rep	ort Ref. No. : SEC/SM	M-CR-S	AK/17-18		Nature of	Nature of Sample: Waste Water			
	ne of Industry/Custor	Sample C	ollected By	SEC Lab					
Ltd.									
	ress: Tal- Walva	Dorio de N	ar 2017 to	Ama 2019					
Inam	ne of Sample : Biogas	Soutiet	(Distinery D	1v1s10n)	Perioa: N	ov 2017 to A	Apr 2018		
Sr. No.	Test Parameter	Unit	Standards	Nov-2017	Apr-2018	Mean	Standard Deviation		
1	pН	-		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		

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:-

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 Nayakawadi Hutatma Kisan Ahir Sahakari Sakhar Karkhana Ltd.

Padmabhushan Krantiveer Dr. Naganath Anna Naykwadi Hutatma Kisan Ahir Sahkari Sakhar Karkhana Ltd. Naganath Anna Nagar, Walwe Dist: Sangli – 416313 Reg.: <u>Compliance of Sugar 5000 TCD & 24 MW Environment clearances as per EIA notification 2006.</u>

A.	Environment clearance Vide: F. No. J-11011/197/2013-IA-II SPECIFIC CONDITIONS	<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 ESF & sufficient stack height shall be provided. At present for 5000 TCD the existing boiler with we 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
111.	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 shalls 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.
Six Mo	onthly Compliance Report	Page 2

Padmabhushan Krantiveer Dr. Naganath Anna Nayakawadi Hutatma Kisan Ahir Sahakari Sakhar Karkhana Ltd.

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.	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.	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	Stored Sahakari Sala Sanata
Six Mo	onthly Compliance Report	Reg. No. SAN/PRG/A-4 Dt 20/9/1501 Maharashtra
		A. Warwe, Dist. Sangli.
	Environment and Forest and Climate Change. In case of	
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	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	Complied
	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.	
iv.	The National Ambient Air Quality Emission Standards issued	Followed.
	by the Ministry vide G.S.R. No. 826(E) dated 16 th November,	k
	2009 shall be followed	Consticut
v.	The overall noise levels in and around the plant area shall be	Complied.
	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,	
vi.	1989 viz. 75 dBA (Day Time) and 70 dBA (Night Time). The Company shall harvest rainwater from the roof tops of	Implemented.
VI.	the buildings and storm water drains to recharge the ground	Implemented.
	water and use the same water for the process activities of the	
	project to conserve fresh water.	
vii.	Training shall be imparted to all employees on safety and	Complied.
v 11.	health aspects of chemicals handling. Pre-employment and	complied.
	routine periodical medical examinations for all employees	
	shall be undertaken on regular basis. Training to all	
	employees on handling of chemicals shall be imparted.	
viii.	The company shall also comply with all environmental	Complied.
	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.	ं
x.	The company shall undertake all relevant measures for	Already implemented.
	improving the socio-economic conditions of the surrounding	
	area. CSR activities shall be undertaken by involving local	
	villages and administration.	
K.	The company shall undertake eco-developmental measures	Implemented.
	including community welfare measures in the project area for	iswent let # Pad
	the overall improvement of the environment.	and shutatma k
ĸi.	A separate Environmental Management Cell equipped with	Provided.
	full fledged laboratory facilities shall be set up to carry out	Provided.
	the Environmental Management and Monitoring functions.	
kii.	The company shall earmark sufficient funds towards capital	Complied.
	cost and recurring cost per annum to implement the	23 GE 8' OF
	conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along	Contraction of the state of the

Six Monthly Compliance Report

	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 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 10.07.2017 Date of start of development work. Aug 2017



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<u>Compliance of 30 KLPD Distillery as per EIA notification 2006</u> 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.	SPECIFIC CONDITIONS	COMPLIANCE
i.	The company shall adopt continuous fermentation	Complied.
	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.	
ii.	The company shall install Wet Scrubber and stack height	Implemented. Steam is taken from
	as per CPCB / SPCB standards to control the emission	sugar factory boiler which are provided
	from the bagasses fired boiler installed to achieve the particulate emission within the prescribed standards.	wet scrubber as APC equipment.
iii.	The spent wash shall be stored in impervious pucca	Spent wash storage lagoon is
	lagoons. The spent wash lagoons shall have proper lining	constructed as per CPCB guidelines
	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.	
iv.	Adequate numbers of ground water quality monitoring	Piezometers are provided at the
	stations by providing piezometers around the compost	compost yard, monthly basis report
	plant and project area shall be set up. Samplings and	submitted to SPCB & Ministry
	trend analysis monitoring must be made on monthly	
v.	basis and report submitted to SPCB and Ministry. The operation of distillery shall be restricted to 270 days	Distillery operation is restricted to 270
۷.	and that it shall not operate during rainy season and /or	days. Distillery shall not be operated
	whenever the ETP is not able to treat the effluent as per	during rainy season.
	standards.	E.
vi.	The company shall implement all the	Public Hearing for Distillery was
	recommendations/conditions/modification/improvements suggested by public hearing panel and reports shall be	conducted on 13.02.2007 .
	submitted to this ministry within three months.	compliance report to the Ministry, the
		copy of which is enclosed.
vii.	As reflected in the EIA/EMP, green belt of adequate	At present, 25 % of the area is covered
	width and density in 8.0 acres of plant area shall be provided to mitigate the effect of fugitive emission all	under green belt and remaining 8% shall be covered within a period of 2 to
	around plant and compost yard as per CPCB guidelines	3 year as per the CPCB Guidelines.
	in conditions with the local DFO.	
B.	GENERAL CONDITIONS :	COMPLIANCE
i.	The industry shall that the treated effluent and stack	Noted & shall be complied
	emission from the unit are within the norms stipulated under EPA rules of SPCB whichever is more stringent.	Nagnath
	In case of process disturbances/failure of pollution	at DI. cathar inna
	in cuse of process disturbances/failure of pollution	AND
	A STATE OF THE STA	Noted & shall be complied
Six M	onthly Compliance Report	Page 6
5 IN 171	S	A HP.
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	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.		Noted.
11.	carried out without prior approval of the Ministry of	
	Environment and Forest.	
iii.	Ambient Air Quality Stations shall be set up in the down	Complied.
111.	wind direction as well as where maximum ground level	Compile
	concentration of SPM, SO_2 , NO_x are anticipated in	
	consultations with State Pollution Control Board.	
iv.	Adequate number of influent and effluent quality	Complied.
IV.	stations shall be set up in consultation with the State	r r
	Pollution Control Board. Regular monitoring should be	
	carried out for relevant parameters.	
	The overall noise levels in and around the plant area	Complied.
v.	shall be kept well within the standards by providing	Compress.
	noise control measures including acoustic hoods,	
	silencers, enclosures etc. on all sources of noise	-
	silencers, enclosures etc. on an 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).	Implemented.
vi.	Company shall adopt rain water harvesting measures to	Implemented.
	recharge the ground water.	Occupational health surveillance
vii.	Occupational health surveillance programme shall be	Occupational health surveillance regularly carried out & record is
	undertaken as regular exercise for all the employees. The	
	first aid facilities in the occupational health centre shall	maintained separately.
	be strengthened and the medical records of each	
	employee shall be maintained separately.	N. (1.0.1. in a implemented
viii.	The project proponent shall also comply with all	Noted & being implemented.
	environmental protection measures and safeguards	
	recommended in the EIA/EMP report.	
		n 11-1
ix.	A separate environmental management cell equipped	Provided.
	with full fledged laboratory facilities must be set up to	
	carry out the environmental management and monitoring	
	functions.	
х.	The project authorities shall requisite funds for both	Budgetary provision of 5 % of the cost
	recurring and non recurring expenditure to implement	of project is earmarked for CSR
	the conditions stipulated by the Ministry of Environment	activities. The local need is being
	and Forests as well as State Government along with the	identified & appropriate budgetary
	implementation schedule for any other purpose.	allocation shall be made & shall be
		submitted.
xi.	The implementation of the project vis-à-vis	
	environmental action plans will be monitored by	compliance reports along with Data
	Ministry's Regional Office at Bhopal / State pollution	shall be submitted to Regional office
	Control Board/ Central Pollution Control Board. A six	Nagpur, CPCB & MPCB regularly.
	monthly compliance status report along with the data	A.P. NEX
	shall be submitted to the monitoring agencies.	
xii.	The Project Proponent shall inform the public that the	Informed & copy is enclosed.
	project has been accorded environmental clearance by	Naginan Anna
		Sakhar Karka 22
	/.	Sol Sakhar Karring Para
C1. 7	Ionthly Compliance Report	5 Perf 198 3 5 5 Page 7
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	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	Date of Financial Closer is 07.11.2015 Date of Financial approval : 24.02.2016 Date of start of development work:
	and the date of start of land development work.	June 2016



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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
S 4	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



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			EST REP	ORT		- 266.
	Ref. No. : SEC/SM-CR- f Industry/Customer: H			SSK	Nature of Sam Sample Collect	ple: Water ted By: SEC Lab
.td. Address	s: Walva-416313, (Dist)	Sangli.			Date of sampli 2018.	ng: 19 th Aug
Name o	f Sample : Surface Wate	r Sample	9			is: 24 th Aug 2018
Sr. No.	Parameters	SW1	SW2	Unit		uired Standards
HEMI	CAL 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 ^o C	7.31	7.26	-	6.50 to 8.50	No Relaxation
4	Temperature	29	29	⁰ 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 CaCO3	<5	<5	mg/l	N.S.	N.S.
11	Total Alkalinity as CaCO3	35.36	33.28	mg/l	200	600
12	Total Hardness as CaCO3	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 SO4	<10	<10	mg/l	200	400
17	Nitrate as NO3	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 SiO3	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 Cr6+)	<0.02	<0.02	Niveersh. I	N.S. N.S. Magnara 1380 GIA-4	N.S.
25	Iron (as Fe)	< 0.05	<0.05	nale	111.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	No Relaxation
		1	ushan	Reg. N SANIPR	GIA-4	
ix Mont	hly Compliance Report		Hubh	Manara Manara * Tal. Walwe	shtra a	Page 10

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
ACTE	RIOLOGICAL POTAR	BILITY				- 246.
01	Total Coliforms	500	900	MPN./100 ml	Shall not be present in any 10 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.



Six Monthly Compliance Report

				<u>T</u>	EST R	EPOR					
Report Ref. No	. : SE	C/SM-	CR-SA	K/17-	18					mple: Wate	
Name of Indus	stry/C	ustom	er: Hut	atma k	Kisan A	hir SSI	K			cted By: S	
Address: Walv					ling: 19 th A						
Name of Samp	le : Gi	round V	Water S	Sample				End of	Analy	vsis: 24 th A	ug 2018
Characteristic s	GW1	GW2	GW3	GW4	GW5	GW6	GW7	GW8	GW9	IS 1050	0:2012
										Permissibl e	e
pH at 25 ^o 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 CaCO3	153.9 2	208	384.8	213.2	301.6	301.6	270.4	405.6	395.2	200	600
Total Hardness as CaCO3	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	-	75.36	30	100
Chloride as Cl ⁻	78.84	27.59	68.98	128.1 1	739.1 3	2020.2	137.9	2	86.72	250	1000
Sulphates as SO4	176.0 4	32.81	226.0 4	73.43	235.4 1	605.72	71.87	7 373.4	77.60	200	400
Nitrate as NO3	5.08	31.16	16.18	13.87	24.04	24.59	41.02				No relaxatio
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 SiO3	21.93	17.98	35.37	29.05	60.8	91.89	32.0		51.97		N.S.
Phenol	<0.00 1	<0.00 1	<0.00 1	<0.00 1	<0.00 1	< 0.001	<0.0	1	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	<0.0	2 <0.01	<0.02	N.S.	N.S.
Iron (as Fe)	< 0.05	< 0.05	<0.05	< 0.05	< 0.05						No relaxatio
Copper (as Cu)	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	<0.0	Br. Nagi Ari Sakha	< 0.04	0.05	1.5

Six Monthly Compliance Report

Salakari Sakha uer Reg. No. Dt. 29/8/1981 Maharashtra akw. 2 115 ped

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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	<0.00 3	<0.00 3	<0.00 3	<0.00 3	<0.00 3	< 0.003	<0.00 3	<0.00 3	<0.00 3	0.003	No relaxation
Total coliforms	ND	ND	ND	ND	ND	ND	ND	ND	ND		e present in nl sample
Fecal coliform	ND	ND	ND	ND	ND	ND	ND	ND	ND		e present in nl 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.



Six Monthly Compliance Report

		TEST	REPORT					
Repor	rt Ref. No. : SEC/SM-CR-SAH	K/17-18		Nature of Sample: Waste Water				
Vame	of Industry/Customer: Huta		ted By: SEC Lab					
	ess: Walva-416313, (Dist) San	Date of sampli	ng: 19 th Aug 2018.					
Name	of Sample : Nala water samp.	le		End of Analys	is: 24 th Aug 2018			
Sr. No.	Test Parameter			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-19) 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.



Six Monthly Compliance Report

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: 19th 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	Clay	Clay	Clay	Clay	Clay	Clay	Clay
TUTTUTU	i i i i i i i i i i i i i i i i i i i	Loam	Loam	Loam	Loam	Loam	Loam	Loam	Loam
					componen	T	1		
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

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Six Monthly Compliance Report

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 µmho/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.



Six Monthly Compliance Report

	<u>TI</u>	EST REPORT					
Report	Ref. No. : SEC/SM-CR-SAK/17-18		Nature of	Sample: Stack Emission			
Name o	f Industry/Customer: Hutatma Kisan	Ahir SSK Ltd.	Sample C	ollected By: SEC Lab			
Addres	s: Walva-416313, (Dist) Sangli.		Date of sa	mpling: 20 th Nov 2018.			
Name o	f Sample : Stack Monitoring (stack 1 ·	- Old)		alysis: 04 th Dec 2018			
Sr. No.	Parameter		Particu	lars 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.



Six Monthly Compliance Report

		TEST REPORT					
Report	Ref. No. : SEC/SM-CR-SAK/17-18	3	Nature of	Sample: Stack Emission			
	f Industry/Customer: Hutatma Kis			ollected By: SEC Lab			
Address	s: Walva-416313, (Dist) Sangli.		Date of sar	mpling: 20 th Nov 2018.			
	f Sample : Stack Monitoring (stack	2 - New)		alysis: 04 th Dec 2018			
Sr. No.	Parameter		Particu	lars 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.



Six Monthly Compliance Report

		TEST R	EPORT			
Repo	rt Ref. No. : SEC/SM-CR-SAK/	17-18		Nature of Samp	ole: Ambient	Air
Name	e of Industry/Customer: Hutatn	na Kisan Ahir S	SSK Ltd.	Sample Collect		
Addr	ess: Walva-416313, (Dist) Sangl	i.		Date of samplin	g: 20 th Nov 2	.018.
Name	e of Sample : Ambient Air Moni	toring		End of Analysis		
Sr.			PM _{2.5} (μg/m ³		NO _X (µg/m ³)	SO ₂ (μg/m ³)
No.	Sampling Station	Limits	< 60µg/1	n ³ < 100µg/m ³	< 80µg/m ³	< 80µg/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.



Six Monthly Compliance Report

	TES	ST REPORT		
Report Ref	. No. : SEC/SM-CR-SAK/17-18		Nature of Sa	mple: Waste Water
Name of In	dustry/Customer: Hutatma Kisan A	hir SSK Ltd.	Sample Coll	ected By: SEC Lab
Address: W	/alva-416313, (Dist) Sangli.		Date of sam	pling: 20 th Nov 2018.
Name of Sa	mple : Sugar ETP Inlet		End of Anal	ysis: 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)



Six Monthly Compliance Report

		TE	ST REPO	RT	
Report	Ref. No. : SEC/SM-CR-SAK/	17-18		Nature	of Sample: Waste Water
Name o	of Industry/Customer: Hutatm	a Kisan Al	hir SSK Lt	td. Sample	Collected By: SEC Lab
Addres	ss: Walva-416313, (Dist) Sangl	i.		Date of	sampling: 20 th Nov 2018.
Name o	of Sample : Sugar ETP Outlet			End of A	Analysis: 30 th Dec 2018
Sr. No.	Test Parameter	Result	Unit	Standards	Test Method
1	pH	7.69	Ξ.	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.



Six Monthly Compliance Report

		TEST R	EPORT		
Repo	rt Ref. No. : SEC/SM-CR-SAK/1	7-18	Nature	of Sample: Was	ste Water
	e of Industry/Customer: Hutatma			Collected By: S	
Addr	ress: Walva-416313, (Dist) Sangli			sampling: 20 th	
Nam	e of Sample : Piezometer Water S	ample	End of A	Analysis: 30 th D	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.



Six Monthly Compliance Report

		TEST REPORT		
Demonst D.	ef. No. : SEC/SM-CR-SAK/17-18		Nature of Sample: Co	ompost
Name of I	industry/Customer: Hutatma Kisar	n Ahir SSK Ltd.	Sample Collected By:	
	W 1 41(212 (Dist) Sangli		Date of sampling: 20th	^h Nov 2018.
Address:	Walva-416313, (Dist) Sangli.		End of Analysis: 30 th	Dec 2018
	Sample : Ready Compost Test Parameter	Result	Unit	Standards
Sr. No.	Moisture	32.22	%	< 35
1		7.78		6.5 - 8.5
2	pH (Saturated) Total Volatile Solids	56.89	%	60 - 65
3		43.11	%	40 - 45
4	Residual Ash	2.06	%	>2.0
5	Nitrogen as N	1.44	%	>0.50
6	Phosphorus as P2O5	3.09	%	>3.0
7	Potassium as K2O	29.15	%	20 - 30
8	Organic Carbon			< 17
9	C/N	14.15		
	Leachate Water (Filtrate)		6.5 - 8.5
10	pH	7.91	/1	< 250
11	C.O.D.	219	mg/l	< 30
12	B.O.D.	26	mg/l	< 600
13	Chlorides	114	mg/l	< 2100
13	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.



Six Monthly Compliance Report