

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: hutatmasugar.com Phone: (02342) 267538 /40 /41 Fax: (02342) 267539

Ref.No:PKDNNHKASSK/ADM - MFG./2020-2021/ 84

Date :- 01-07-2020.

To,
The Deputy Director General of Forests,
(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: Six Monthly Compliance Report For the period January 2020 to June 2020.

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,

Leure Par Sakhar Marke Sakhar M

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Hanaging Director

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

Padmabhushan Krantiveer Dr. Naganath Anna Naykwadi Hutatma Kisan Ahir Sahkari Sakhar Karkhana Ltd. Naganath Anna Nagar, Walwe Dist: Sangli – 416313 January 2020 to June 2020 Reg.: Compliance of Sugar 5000 TCD & 24 MW Environment clearances as per EIA notification 2006.

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

A.	Environment clearance Vide: F. No. J-11011/197/2013-IA-II SPECIFIC CONDITIONS	COMPLIANCE		
i.	ESP along with stack of adequate height shall be provided to bagasse fired boiler to control particulate emission within 50mg/Nm ³ .	Co-generation power plant is yet to be established, at which time ESP & sufficient stack height shall be provided. At present for 5000 TCD the existing boilers have adequate stack heights with wet scrubber as APC equipment.		
ii.	An action taken note (Duly certified by the 'RO, MoEF & CC) non complied points of Compliance Report of Regional Office, MoEF &CC Dated 10* August, 2016 be submitted.	Enclosed		
iii.	Total fresh water requirement from Krishna River shall not exceed 3670 m3/day during season. No ground water shall be used.	Sugar factory capacity is expanded & as such present water requirement is 470.27m³/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 470.27m 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 up to 30 mg/lit of effluent standard even in case of land disposal.	Trade effluent is 348.94m³/day and 40m3/day is 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.		
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 Bricks manufacturer on day to day basis & as such storage facilities are not provided.		

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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 Fir Hydrant. Two fire engines are als available with industry. DMP if 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 is regularly carried out & records are maintained.	
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 28 % is completed a per CPCB guidelines & remainir 8% shall be developed within 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.	
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	Noted.	

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	and Foract and Climate Cl.	
	and Forest and Climate Change. In case of deviations of 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.	
	and to add additional environmental protection measure required, if any.	S
iii.	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Contro 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 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).	Noise level monitoring were carried out regularly and
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 socio-economic 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 laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Provided.
xii.	The commons ob all and a construction of	Complied Nagnary
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	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.	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.	Submitted regularly.
XV.	The environmental statement for each financial year ending 31 st . March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF & CC by e-mail.	Submitted regularly.
xvi.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in. This shall be advertised within seven days from the date of issue of clearance letter, at two local news papers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	
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.	



Padmabhushan Krantiveer Dr. Nagnathanna Nayakawadi Hutatma Kisan Ahir SSK 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. 12th October 2015

January 2020 to June 2020 January 2020 to June 2020

Α.	SPECIFIC CONDITIONS	COMPLIANCE	
i.	The company shall adopt continuous fermentation technology and ensure that the spent wash generation shall not exceed 240m³/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 biocomposting, 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.	Steam is taken from its own boiler and Wet Scrubber is provided as APC equipment. Stack height of 40 meters is provided as per CPCB guidelines. Spent wash storage lagoon is	
iii.	particular to the state of the		
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 site, the monitoring results are submitted to SPCB & R.C. MoEF&CC Nagpur. Results are given in Annexure I.	
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.	11 11 We have already cul		
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, 28 % of the area is covered under green belt and remaining 8% shall be covered within a period of 2 to 3 year as per the CPCB Guidelines.	
B.	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	Noted. Results are as per the norms.	

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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.	No further expansion or modification in the plant be	Environmental Clearance is received fo
	carried out without prior approval of the Ministry of	the expansion of the distillery capacity
	Environment and Forest.	The expansion work yet to start.
iii.	Ambient Air Quality Stations shall be set up in the down	Complied.
	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.
IV.	stations shall be set up in consultation with the State	compiled:
	Pollution Control Board. Regular monitoring should be	
	carried out for relevant parameters.	Complied
V.	The overall noise levels in and around the plant area	Complied.
	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 measures to	Being implemented.
	recharge the ground water.	
vii.	Occupational health surveillance programme shall be	Occupational health surveillance
	undertaken as regular exercise for all the employees. The	regularly carried out & record is
	first aid facilities in the occupational health centre shall	maintained separately.
	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 equipped	Provided.
IA.	with full fledged laboratory facilities must be set up to	Trovided.
	carry out the environmental management and monitoring	
	functions.	Being Complied.
X.	The project authorities shall requisite funds for both	Being Compiled.
	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.	
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
	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	
	shall be submitted to the monitoring agencies.	
xii.	The Project Proponent shall inform the public that the	Informed & copy is enclosed.
AII.	project has been accorded environmental clearance by	internied of copy is enclosed.
	Ministry and copies of the clearance letter are available	
		St. Nagnath
	with the state Pollution Board/ Committee and may also	

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	be seen at Website of Ministry of Environment and Forests at http://envfor.nic.in. This shall be advertised within seven days from the date of issue of clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and copy of the same shall be forwarded to the Regional Office.	
xiii.	The Project Authorities shall inform the regional Office as well as the Ministry the date of financial closer and final approval of the Project by the concerned authorities and the date of start of land development work.	Date of Financial approval: 24-02-2016



ANNEXURE I

TEST REPORT	
Report Ref. No. : SEC/Stack1-QV/12-19 & 01-20	Nature of Sample: Stack Emission
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Sample Collected By: SEC Lab
Address: A/p. Walva-416313, (Dist) Sangli.	Period of Sampling: Dec 2019 &
Name of Sample: Stack Monitoring	Jan 2020

Sr. No.	Parameter	Dec	Jan	Limit
1.	Stack Height (m)		30.0	
2.	Stack Diameter (m)	3.	.6576	
3.	Boiler Capacity (T/hr)	2	2*20	-
4.	Fuel Used	Bagasse		
5.	Flue Gas Tem.(°C)	132	134	
6.	Flue Gas Velocity (m/sec.)	8.9	8.7	
7.	P.M.(mg/Nm ³)	116	112	150
8.	$NO_X (mg/Nm^3)$	55	56	80
9.	$SO_2(mg/Nm^3)$	26	25	80

Remarks:

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



TEST REPORT		
Report Ref. No.: SEC/Stack2-QV/12-19 & 01-20	Nature of Sample: Stack Emission	
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Sample Collected By: SEC Lab	
Address: A/p. Walva-416313, (Dist) Sangli.	Period of Sampling: Dec 2019 & Jan	
Name of Sample: Stack Monitoring .	2020	

Sr. No.	Parameter	Dec	Jan	Limit
1.	Stack Height (m)		30.0	
2.	Stack Diameter (m)		3.0	
3.	Boiler Capacity (T/hr)		30.0	
4.	Fuel Used	Bagasse		_
5.	Flue Gas Tem.(°C)	133	134	
6.	Flue Gas Velocity (m/sec.)	9.3	9.2	
7.	P.M.(mg/Nm ³)	110	108	150
8.	NO _X (mg/Nm ³)	52	53	80
9.	SO ₂ (mg/Nm ³)	24	25	80

Remarks:

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



TEST REPORT	
Report Ref. No.: SEC/AA-QV/12-19 & 01-20 Name of Industry/Customer: Padmabhushan Krantiveer Dr.	Nature of Sample: Ambient Air Sample Collected By: SEC Lab
Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd. Address: A/p. Walva-416313, (Dist) Sangli. Name of Sample: Ambient Air Monitoring	Period of Sampling: Dec 2019 & Jan 2020

Sr. No	Sampling Station	PM ₁₀ (μg/m ³)	PM _{2.5} (μg/m ³)	SO ₂ (μg/m ³)	NO _X (μg/m ³)
140	NAAQ Standard 2009	100 μg/m ³	$60 \mu g/m^3$	$80 \mu g/m^3$	$80 \mu g/m^3$
	Hours	24hr	24hr.	24hr	24hr
	Hours	Dec-2019			
1	Near Factory Main Gate ,	71	33	10.00	12.00
2	Near Sugar ETP Plant	65	29	08.00	10.00
4	Near Sugar ETT Trait	Jan-2020			
	N. Fasters Main Gate	73	35	12.00	14.00
2	Near Factory Main Gate Near Sugar ETP Plant	68	30	09.00	11.00

Remarks:

Ambient Air Quality was assessed from Dec 2019 and Jan 2020 for the parameters PM10, PM_{2.5}, SO₂ and NO_X. The results indicate that all the parameters are well within the prescribed limits.



TEST REPORT	
Report Ref. No.: SEC/NL-QV/12-19 & 01-20	Nature of Sample: Noise
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Sample Collected By: SEC Lab
Address: A/p. Walva-416313, (Dist) Sangli. Name of Sample: Noise Level Monitoring	Period of Sampling: Dec 2019 & Jan 2020

Sr. No.	Location of recording Sound level	Standard Limit dB (A) Leq	Time	Results in dB (A) Leq
	Decembe	er 2019		
ia:	201.0	75	Day	58.2
1.	Factory Main Gate	70	Night	50.4
2	0 0 4	75	Day	67.9
2.	Cane Cutter	70	Night	62.6
2	C MILIT	75	Day	71.6
3.	Sugar Mill House	70	Night	67.3
	D. 111 VI	75	Day	72.7
4.	Boiling House	70	Night	68.1
_	D	75	Day	71.9
5.	Bagging House	70	Night	67.2
	January	2020		^
	Di	75	Day	55.8
1.	Distillery Main Gate	70	Night	50.2
_	0 1000	75	Day	52.6
2.	General Office	70	Night	49.1
_	C II	75	Day	51.8
3.	Guest House	70	Night	48.5
	G FEED DI	75	Day	61.3
4.	Sugar ETP Plant	70	Night	57.2
_	G	75	Day	60.2
5.	Compost Yard	70	Night	51.8

Remarks:

The Noise levels results indicate that both day time and night time are within prescribed limits. This is due to proper acoustic enclosures to the Noise generating machines and development of adequate Greenbelt

TEST REPORT	
Report Ref. No.: SEC/W-QV/12-19 & 01-20	Nature of Sample: Water
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Sample Collected By: SEC Lab
Address: A/p. Walva-416313, (Dist) Sangli. Name of Sample: Sugar ETP Inlet	Period of Sampling: Dec 2019 & Jan 2020

Sr.	Treat Donomotor	Res	ults	Test Method
No.	Test Parameter	Dec	Jan	1 est Method
1	pH	5.19	6.67	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand (mg/l)	2167	1636	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C) (mg/l)	927	712	IS:3025 (P-44) 1993
4	Total Dissolved Solids (mg/l)	2654	2082	IS:3025(P-16)1984
5	Total Suspended Solids (mg/l)	381	320	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻ (mg/l)	280	249	IS:3025 (P-32) 1988
7	Sulphate as SO ₄ (mg/l)	192	184	IS:3025 (P-24) 1986
8	Oil & Grease (mg/l)	25	20	IS:3025 (P-39) 1991 (RA 2003)



TEST REPORT	
Report Ref. No. : SEC/W-QV/12-19 & 01-20	Nature of Sample: Water
Name of Industry/Customer: Padmabhushan Krantiveer Dr.	Sample Collected By: SEC Lab
Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd. Address: A/p. Walva-416313, (Dist) Sangli.	Period of Sampling: Dec 2019 &
Name of Sample: Sugar ETP Outlet	Jan 2020

Sr.	Test Payamatay	Res	ults	Ctandanda
No.	Test Parameter	Dec	Jan	Standards
1	pH	8.01	7.96	5.5-8.5
2	Chemical Oxygen Demand (mg/l)	158	154	250
3	B.O.D. (3 days at 27°C) (mg/l)	61	57	100
4	Total Dissolved Solids (mg/l)	522	510	2100
5	Total Suspended Solids (mg/l)	56	54	100
6	Chloride as Cl (mg/l)	118	109	600
7	Sulphate as SO ₄ (mg/l)	76	70	1000
8	Oil & Grease (mg/l)	ND	ND	10

Remark:

The outlet concentrations are within prescribed limits of CPCB.



	Period of Sampling: Dec 2019	Address: A/p. Walva-416313, (Dist) Sangli.	Hutatma Kisan Ahir SSK Ltd.	Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Sample Collected By: SEC Lab	Report Ref. No.: SEC/W-QA/12-19	TEST REPORT
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A Property

Sr.	Total Description	111		Re	Result		IS:2296	Track Mathewal
No.	Lest Farameter	Chit	P-1	P-2	P-3	P-4	Standards	l est Method
1	*Color	Hazen	< 5	< 5	< 5	< 5	1	IS:3025 (P-4) 1983
2	*Odor	***		Agre	Agreeable			IS:3025 (P-5) 1983
3	. Hd	1	8.41	8.19	8.01	8.35	6.5 - 8.5	IS:3025 (P-11) 1983
4	Turbidity	NTU	8.0	0.5	1.2	0.1		IS:3025 (P-10) 1984
5	Total Alkalinity (as CaCO ₃)	mg/l	480	430	410	640	1	IS:3025 (P-23) 1986
9	Chemical Oxygen Demand	l/gm	29	37	71	51		IS:3025 (P-58) 2006
7	B.O.D. (3day's at 27°C)	mg/l	6	< 4	12	7	-	IS:3025 (P-44) 1993
000	Total Dissolved Solids	mg/l	730	683	890	1190	2100	IS:3025 (P-16) 1984
6	Chlorides (as CI)	l/gm	145	115	225	165	009	IS:3025 (P-32) 1988
10	Hardness (as CaCO ₃)	mg/l	420	384	590	530		IS:3025 (P-21) 1983
11	Calcium (as Ca)	mg/l	94	85	164	160	1	IS:3025 (P-40) 1991
12	Magnesium (as Mg)	mg/l	45	42	44	33	-	IS:3025 (P-46) 1994
13	Sodium (as Na)	l/gm	137.7	138.3	177.3	156.2	and the l	IS:3025 (P-45) 1993
14	Potassium (as K)	mg/l	1.7	2.9	2.8	4.0	44440	IS:3025 (P-45) 1993
15	% Na (Max)	%	41.51	43.62	39.36	38.6	09	By Calculation
16	Sodium Absorption Ratio		2.92	3.06	3.17	2.93	26	By Calculation
17	Residual Sodium Carbonate	meq/l	1.15	0.85	-3.66	2.05	2.5	By Calculation
18	Electrical Conductivity	mp/soqum	1456	1341	2101	210.	2250	IS:3025 (P-14) 1984
					1 27	100		

Where,

P-1: Piezometer Borewell No. 1, P-2: Piezometer Borewell No. 2

P-3: Piezometer Borewell No. 3 & P-4: Piezometer Borewell No. 4.

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