

Reg.No.ANR/AKL/PRG(A)/28(S)1989
Date- 04/12/1989
Email agastisakhar@rediffmail.com



Ph. (02424) 222714, 222775
Fax (02424) 223283
Gram- 'AGASTISAKHAR' Akole

अगस्ति सहकारी साखर कारखाना लि., अगस्तिनगर

मु.पो.अगस्तिनगर, ४२२६०१, ता.अकोले, जि.अहमदनगर

AGASTI SAHAKARI SAKHAR KARKHANA LTD., AGASTINAGAR

At.Post- Agastinagar 422601 Tal.Akole Dist.Ahmednagar (Maharashtra)

Agasti/31/Distillery/ 2019-20

Date- 03/01/2020

To,
The Additional Director(s),
Ministry of Environment and Forest and Climate Change
Regional Office (WCZ), Ground Floor,
East Wing, New Secretariat Building,
Civil Line, Nagpur, Maharashtra- 440001

Subject:- Submission of Environmental Clearance compliance Report (July- 2019 to December- 2019) for molasses based distillery of capacity 30 KLPD by M/s Agasti Sahakari Sakhar Karkhana Ltd. at Agasti Nagar, Taluka Akole, District Ahmednagar (Maharashtra)

Reference:- Environment Clearance from MoEF vide F. N. IA-J-11011/329/2016-IA-II(I) dated. 08/01/2019

Respected Sir,

With reference to the above subject we are submitting the current Status of our project, monitoring reports, data sheet and point wise compliance status to various stipulation laid down by the Ministry of Environment and Forest in its clearance letter No. F. N. IA-J-11011/329/2016-IA-II(I) Dated- 8th January 20019 along with the necessary enclosure and annexure.

This is for your kind consideration and records. Kindly acknowledge the same.

Thanking you,

Yours Faithfully


(B.S. Ghule)

Managing Director

Encl.:

- Part A: Data Sheet
- Part B: Current Status of Construction Work
- Part C: Point wise compliance status
- Part D: Annexures

Environmental Clearance Compliance Status Report

As per condition stipulated in the environment clearance letter F. No. IA-J-11011/329/2016-IA-II(I) Dated 08.01.2019

(Period: July 2019 to December 2019)

For

**Setting up Molasses Based Distillery of Capacity 30 KLPD
of
Agasti Sahakari Sakhar Karkhana Ltd.**



At

Agasti Nagar, Taluka Akole,
District Ahmednagar, Maharashtra.

Applicant

M/s Agasti Sugar Sahakari Sakhar Karkhana Ltd.

Agasti Nagar, Taluka Akole, District Ahmednagar

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1. Part A Data Sheet

Monitoring the Implementation of Environmental Safeguards
Ministry of Environment, Forest and Climate Change
Western Region, Regional Office, Nagpur

1.	Project type: River - valley/ Mining / Industry / Thermal / Nuclear / Other (specify)	:	Industry
2.	Name of the project	:	M/s Agasti Sahakari Sakhar Karkhana Ltd.
3.	Clearance letter (s) / OM No. and Date	:	Clearance Letter No. F. No. IA-J-11011/329/2016-IA-II(I) Dated 8 th January, 2019 attach as Annexure 1
4.	Location	:	
	a. District (S)	:	Ahmednagar
	b. State (s)	:	Maharashtra
	c. Latitude/ Longitude	:	Latitude: 19°30'53.75"N Longitude: 74°00'18.62"E
5.	Address for correspondence	:	
	a. Address of Concerned Project Chief Engineer (with pin code & Telephone / telex / fax numbers	:	Mr. Surendra Thorat M/s. Agasti Sahakari Sakhar Karkhana Ltd.
	b. Address of Project: Engineer/Manager (with pin code/ Fax numbers)	:	Mr. Balasaheb Bajirao Derle M/s. Agasti Sahakari Sakhar Karkhana Ltd.
6.	Salient features	:	
	a. of the project	:	It is a molasses based distillery of capacity 30 KLPD. The unit will be based on advance technology of cascade continuous fermentation. It has provision to switch over to Fed Batch fermentation when molasses quality is poor and Multi-pressure distillery.
	b. of the environmental management plans	:	<p>1. Pollution control plan:</p> <p>a. Air Pollution Control: For 10 TPH boiler, proposed stack with adequate height along with ESP will be provided to control the particulate matter</p> <p>b. Water and waste Water: 240 m³/day spent wash will be treated through Bio-methanation- evaporation – bio-composting and effluent stream will be treated by Bio oxidation and tertiary treatment. ETP (300 m³/day) is proposed.</p> <p>c. Solid Waste: Concentrated spent at MEE will be mixed with press mud and used for Bio-composting. Ash will be sold to brick manufacturing.</p> <p>2. Rain water harvesting: Rain water harvesting plan is prepared based on CPCB guidelines.</p> <p>3. Green belt development: 33% of the land (i.e. about 17 ha) shall be brought under green belt. The factory already has green belt development plan in place for its existing unit. It shall be extended for proposed unit as well. 10-15m wide green belt shall be developed around the periphery of factory</p>

				and 1-2 lines of trees shall be planted along the both sides of internal roads. Trees shall also be planted around distillery plant, coal yard, ash storage, boiler room etc.
7.	Breakup of the project area		:	
	a.	Submergence area forest & non-forest	:	Project is located in Non forest area
	b.	Others	:	Area under development 52.21 ha Green Belt Area 17 ha (~33 %)
8.	Breakup of the project affected Population with enumeration of Those losing houses / dwelling units Only agricultural land only, both Dwelling units & agricultural Land & landless labourers /artisan		:	Not Applicable.
	a.	SC, ST/Adivasis	:	Not Applicable
	b.	Others (Please indicate whether these Figures are based on any scientific And systematic survey carried out Or only provisional figures, if a Survey is carried out give details And years of survey)	:	Not Applicable
9.	Financial details		:	
	a.	Project cost as originally planned and subsequent revised estimates and the year of price reference :		
	1.	Estimated Cost of the Project	:	49.98/- Crores Only
	b.	Allocation made for environmental management plans with item wise and year wise Break-up.	:	Costing enmarked for (Environmental Management Plan (EMP)) will be During Construction phase: Capital Cost: 23.67 lacs During operational Phase: Total set up Cost: 5 Cr O & M cost : 2 Cr/annum
	c.	Benefit cost ratio / Internal rate of Return and the year of assessment	:	
	d.	Whether (c) includes the Cost of environmental management as shown in the above.	:	
	e.	Actual expenditure incurred on the project so far	:	29.80 Cr
	f.	Actual expenditure incurred on the environmental management plans so far	:	22 Lakh
10.	Forest land requirement		:	Not Applicable
	a.	The status of approval for diversion of forest land for non-forestry use	:	Not Applicable

	b.	The status of clearing felling	:	Not Applicable															
	c.	The status of compensatory afforestation, it any	:	Not Applicable															
	d.	Comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far	:	Not Applicable															
11.	The status of clear felling in Non-forest areas (such as submergence area of reservoir, approach roads), it any with quantitative information			:	Not Applicable														
12.	Status of construction				<table><tr><th>Sr. No</th><th>Building Name & number</th><th>Status</th></tr><tr><td>1</td><td>Fermentation Section</td><td>a. All fermenters erection work completed. b. Culture vessel, WST, CWT, pre fermenter reception work completed c. All pump & PHE erection work completed. d. S.S. & M.S. pipeline work is in progress. e. Cooling tower erection work completed. f. Cooling water inlet & outlet line work completed. g. PLC, MCC lab & office building plaster work is in progress.</td></tr><tr><td>2</td><td>Distillation Section</td><td>a. All column, condenser, pump, Motor, PHE, Reboiler Reflux tank erection work completed. b. S.S. & M.S. pipe line work is in progress. c. Ethanol plant all equipment erection work completed. d. Ethanol plant pump motor, PHE, erection work is completed e. Electrical & Instrumentation work is balance.</td></tr><tr><td>3</td><td>Receiver & Storage Section</td><td>a. RS, ENA & IS receiver erection work completed b. All pipelines completed. c. All pump & Motor erection work completed. d. RS, ENA & IS storage tank erection work completed. e. Receiver roofing sheet filling work is in progress. f. Storage tank dyke wall & chain</td></tr></table>			Sr. No	Building Name & number	Status	1	Fermentation Section	a. All fermenters erection work completed. b. Culture vessel, WST, CWT, pre fermenter reception work completed c. All pump & PHE erection work completed. d. S.S. & M.S. pipeline work is in progress. e. Cooling tower erection work completed. f. Cooling water inlet & outlet line work completed. g. PLC, MCC lab & office building plaster work is in progress.	2	Distillation Section	a. All column, condenser, pump, Motor, PHE, Reboiler Reflux tank erection work completed. b. S.S. & M.S. pipe line work is in progress. c. Ethanol plant all equipment erection work completed. d. Ethanol plant pump motor, PHE, erection work is completed e. Electrical & Instrumentation work is balance.	3	Receiver & Storage Section	a. RS, ENA & IS receiver erection work completed b. All pipelines completed. c. All pump & Motor erection work completed. d. RS, ENA & IS storage tank erection work completed. e. Receiver roofing sheet filling work is in progress. f. Storage tank dyke wall & chain
Sr. No	Building Name & number	Status																	
1	Fermentation Section	a. All fermenters erection work completed. b. Culture vessel, WST, CWT, pre fermenter reception work completed c. All pump & PHE erection work completed. d. S.S. & M.S. pipeline work is in progress. e. Cooling tower erection work completed. f. Cooling water inlet & outlet line work completed. g. PLC, MCC lab & office building plaster work is in progress.																	
2	Distillation Section	a. All column, condenser, pump, Motor, PHE, Reboiler Reflux tank erection work completed. b. S.S. & M.S. pipe line work is in progress. c. Ethanol plant all equipment erection work completed. d. Ethanol plant pump motor, PHE, erection work is completed e. Electrical & Instrumentation work is balance.																	
3	Receiver & Storage Section	a. RS, ENA & IS receiver erection work completed b. All pipelines completed. c. All pump & Motor erection work completed. d. RS, ENA & IS storage tank erection work completed. e. Receiver roofing sheet filling work is in progress. f. Storage tank dyke wall & chain																	

					<p>link facing work is in progress.</p> <p>g. Loading platform structure work completed.</p> <p>h. Ethanol storage tank & receiver tank erection work is completed.</p> <p>i. Dyke wall chain-link facing work is in progress.</p> <p>j. Loading platform of Ethanol work is balance.</p>
			4	Evaporation Department	<p>a. Product tank, spent wash tank, process condensate tank, CIP tank, erection work completed</p> <p>b. All pump foundation completed.</p> <p>c. MCC & Lab room construction work is in progress.</p> <p>d. Evaporation Plant structural work completed.</p> <p>e. All equipment reached on site erection work is in progress</p> <p>f. Electrical & instrumentation work is balance.</p> <p>g. Cooling tower 50 % work completed.</p>
			5	Biogas Plant	<p>a. Digester erection work is in progress</p> <p>b. Gas holder erection work is in progress</p>
			6	Lagoons	5 & 25 days lagoon excavation, compaction & soil spreading & compaction work is in progress
			7	Composting yard	As per CREP norms 4 acre RCC compost yard completed & 1 acre is balance
			8	Green Belt Development	30 % of green belt development has been completed.
			9	Stack with online monitoring system & ESP	Not yet started & not procured.
	a.	Date of commencement (Actual and/or planned)	:	Actual: April 2019 (Construction phase)	
	b.	Date of completion (Actual and/or planned)	:	Planned: January 2020	
13.	Reasons for the delay if the Project is yet to start		:	Not applicable	
14	Dates of site visits				
	a.	The dates on which the project was monitored by the Regional Office on previous Occasions, if	:	Not Applicable	

		any		
	b.	Date of site visit for this monitoring report	:	NA
15.	Details of correspondence with Project authorities for obtaining Action plans/information on Status of compliance to safeguards Other than the routine letters for Logistic support for site visits)		:	Not Applicable
	(The first monitoring report may contain the details of all the Letters issued so far, but the Later reports may cover only the Letters issued subsequently.)		:	Agreed

2. Part B Construction Status Of Project

Sr. No.	Building Name & Number	Status as on 29/07/2019	Status of the Environmental Management Facilities
1	Fermentation Section	<ul style="list-style-type: none"> a) All fermenters erection work completed. b) Culture vessel, WST, CWT, pre fermenter reception work completed c) All pump & PHE erection work completed. d) S.S. & M.S. pipeline work is in progress. e) Cooling tower erection work completed. f) Cooling water inlet & outlet line work completed. g) PLC, MCC lab & office building plaster work is in progress. 	<p>a. Biogas Plant:- Digester erection work is in progress Gas holder erection work is in progress</p> <p>b. Composting yard:- As per CREP norms 4 acre RCC compost yard completed & 1 acre is balance</p> <p>c. Green Belt Development:- 30 % of green belt development has been completed.</p> <p>d. Stack with online monitoring system & ESP Not yet started & not procured.</p>
2	Distillation Section	<ul style="list-style-type: none"> a) All column, condenser, pump, Motor, PHE, Reboiler Reflux tank erection work completed. b) S.S. & M.S. pipe line work is in progress. c) Ethanol plant all equipment erection work completed. d) Ethanol plant pump motor, PHE, erection work is completed e) Electrical & Instrumentation work is balance. 	
3	Receiver & Storage Section	<ul style="list-style-type: none"> a) RS, ENA & IS receiver erection work completed b) All pipelines completed. c) All pump & Motor erection work completed. d) RS, ENA & IS storage tank erection work completed. e) Receiver roofing sheet filling work is in progress. f) Storage tank dyke wall & chain link facing work is in progress. g) Loading platform structure work completed. h) Ethanol storage tank & receiver tank erection work is completed. i) Dyke wall chain-link facing work is in progress. j) Loading platform of Ethanol work is balance. 	

4	Evaporation Department	<ul style="list-style-type: none"> a) Product tank, spent wash tank, process condensate tank, CIP tank, erection work completed b) All pump foundation completed. c) MCC & Lab room construction work is in progress. d) Evaporation Plant structural work completed. e) All equipment reached on site erection work is in progress f) Electrical & instrumentation work is balance. g) Cooling tower 50 % work completed. 	
5	Lagoon	<ul style="list-style-type: none"> a) 5 & 25 days lagoon excavation, compaction & soil spreading & compaction work is in progress. 	

3. Part C - Environment Clearance Compliance Report

Project Name: Molasses based Distillery of capacity 30KLPD by M/s Agasti Sahakari Sakhar Karkhana Ltd.
at Agasti Nagar, Taluka Akole, District Ahmednagar, Maharashtra.

Period of Compliance: January 2019 to June 2019

Ref: EC vide letter No. : F.No.J-11011/329/2016-IA II (I) Dated 08th January 2019

Point wise compliance of conditions stipulated in EC vide letter no. F. No. J-11011/329/2016-IA II (I) Dated 08th January 2019 are given as under:-

Sr. No	EC Conditions	Compliance
Points		
1.	This has reference to your proposal No. IA/MH/IND2/59752/2016 dated 26 th September, 2018 submitting the EIA/EMP report on the above subject matter.	Agreed
2.	The Ministry of Environment, Forest and climate Change has examined the proposal for environment clearance to the project for setting up molasses based distillery of capacity 30 KLPD (Rectified spirit/ Extra Neutral Alcohol/ Absolute Alcohol) by M/s Agasti Sahakari Sakhar Karkhana Ltd. in a total area of 52.21 ha located at Agasti Nagar, Taluka Akole, District Ahmednagar (Maharashtra)	Ok
3.	The land area available for the project is 52.21 ha, out of which greenbelt will be developed in area of 17 ha, covering 33% of the total project area. The estimated project cost is 49.68 crores. Total capital cost earmarked towards environmental pollution control measure is Rs 5 crores and recurring cost (operation & maintenance) will be 2 crores per annum. Total employment opportunity will be for 64 persons.	Agreed. The available land area is 52.21 ha. Industry will ensure that it will develop green belt area of 17 ha out of 52.21 ha. At actual capital investment of project is 49.68 Crores.
4.	There are no national park, wildlife sanctuaries, biosphere reserves, tiger/Elephant reserves, Wildlife corridors etc. within 10 km from project site. Pravara river is flowing at a distance of 4 km (N) from project site.	Noted
5.	Total water requirement is estimated to be 482 cum/day, including fresh water requirement of 282 cum/day proposed to be met from pravara river, which will be reduce to 240 cum/day during off season.	Agreed Industry will ensure that total water requirement will not exceed 482 m3/d
	Permission for surface water withdrawal of 0.42 MCM from Pravara river has been obtained from the state water resources department, Government of Maharashtra vide letter dated 23 rd August 2018.	Permission for surface water withdrawal from Pravara river is attached as Annexure 2
	Spent wash will be treated through bio methanation, multi effect evaporators (MEE) followed by Bio-composting. There will be no discharge of treated /untreated waste water	Agreed

	from the unit, and thus ensuring Zero Liquid Discharge.	
	Power requirement of 1.2 MW will be met from TPH boiler. DG set of 500 KVA (22 no.) will be used as standby during power failure. Stack (height 60) will be provided as per CPCB norms to be proposed DG sets. ESP with stack height of 60 m will be installed for controlling the particulate emissions within the statutory limit for the proposed boilers	Agreed
	CO ₂ emissions from process will be recovered and bottled in a 20 T capacity plant. Bagasse will be used as fuel in boiler. Press mud will be used for composting and as soil conditioner. ETP sludge will be used for landscaping.	Agreed
6.	The project/activities are covered under category A of item 5 (g) "Molasses based distilleries" of the schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal/approval at central level in the Ministry.	Noted
7.	The terms of reference (ToR) for the project was granted on 31 st May 2017. Public hearing was conducted by the State Pollution Control Board on 8 th September 2017	Noted
8.	The proposal for environmental clearance (EC) was placed before the EAC (Industry-2) in its meeting held on 29-31 October 2018 in the Ministry. The project proponent and their consultant M/s Ultra Tech, Environment Consultancy and laboratory presented the EIA/EMP report as per the ToR, and recommended the proposal for environmental clearance with certain conditions.	Agreed
9.	Based on the proposal submitted by the project proponent and recommendation of the EAC (Industry-2), the Ministry of Environment, Forest and climate change hereby accord environment clearance to the project for setting up Molasses based distillery of capacity 30 KLPD by M/s Agasti Sahkari Sakhar Karkhana at Agasti Nagar, Taluka Akole, District Ahmednagar (Maharashtra), under the provision of the EIA notification, 2006, read with subsequent amendments therein, subject to compliance of the terms and conditions as environmental safeguard, as per Annexure	EC is obtained vide F.No.J-11011/329/2016-IA II (I) Dated 08 th January 2019 attached as Annexure 1
10.	The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent and the project proponent shall implement all the said conditions is not found satisfactory.	Agreed
Terms & conditions		
(i)	Prior approval shall be obtained from the petroleum & Explosive Safety Organization (PESO) for the site and layout plan submitted to this Ministry along with the proposal for EC. In case of any change therein post PESO approval, the proposal shall require fresh appraisal by sectoral EAC	We have obtained drawing approval from PESO & same is enclosed in Annexure 3
(ii)	Consent To Establish/Operate for the project shall be obtained	We have obtained consent to

	from the state pollution control Board as required under the Air (Prevention & control of pollution) Act, 1981 and the water Air (Prevention & control of pollution) Act, 1974	establish vide Consent No. Format-1.0/BO/CAC-CELL /UAN No. 000001658 /E/ CAC - 1809000202 Dated 05.09.2018
(iii)	Zero liquid discharge shall be ensured and no waste/treated water shall be discharged outside the premises.	Agreed and pp is providing MEE followed by composting to achieve ZLD.
(iv)	Necessary authorization required under the hazardous and other wastes (Management and trans Boundary Movement) Rules, 2016, Solid Wates Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.	Industry will take necessary authorization required under the Hazardous and other wastes (Management and trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016
(v)	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/ SPCB guidelines.	Agreed and the gaseous emissions shall be dispersed through stack with adequate height along with ESP as per CPCB/SPCB guidelines after passing through pollution control equipment.
(vi)	Total fresh water requirement shall not exceed 240 m ³ /d during off-season, proposed to be met from pravara river. Prior permission shall be obtained from the concerned regulatory authority in this regard.	Industry will ensure that total freshwater requirement will not exceed 240 m ³ /d during off season.
(vii)	The spent wash after bio-methanation shall be taken to multi effect evaporators (MEE) followed by bio-composting.	Agreed
(viii)	Number of working/operating days for the distillery shall be 270 days as proposed. However, the same may be increased to 330 days/round the year subject to compliance of the standard operating procedure for the bio-composting yard issued by the CPCB vide letter dated 9 th August 2018, and the same is ensured by the state pollution control Board while considering consent to operate.	Agreed
9.	Hazardous Chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.	Hazardous chemicals will be stored in drums, carboys etc.
10.	Process organic residue and spent carbon, if any, shall be sent to cement industries, ETP sludge, process inorganic & evaporation salt shall be disposed off the TSDF	Not Applicable
11.	The company shall strictly comply with the rules and guidelines under Manufacture, storage and import of Hazardous chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of hazardous chemicals shall be as per the Motor Vehicle Act (MVA), 1989.	Agreed
12.	The company shall undertake waste minimization measures as below	

	a) Metering and control of quantities of active ingredients to minimize waste.	Noted
	b) Reuse of by-products from the process as raw material or as raw material substitutes in other processes.	Agreed
	c) Use of automated filling to minimize the spillage.	Noted
	d) Use of close feed system into batch reactors.	Agreed
	e) Venting equipment.	Noted
	f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.	Agreed
13.	The green belt of 5-10 m width shall be developed in more than 33 % of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the state forest department.	<ul style="list-style-type: none"> • Agreed and adhered accordingly. • The factory already has green belt development plan in place for its existing sugar unit • 5000 No of trees are planted on site & proposed to plant 2000 No of trees.
14.	All the commitments made regarding issues raised during the public hearing/ consultation meeting shall be satisfactory implemented.	<p>Public hearing implementation Plan was submitted along with EC compliance of period February – June 2019</p> <p>Question raised by people during public hearing were answered satisfactorily & implementations are being carried out as promised.</p>
15.	At least 2 % of the total project cost shall be allocated for corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's regional office.	<ul style="list-style-type: none"> • The proponent has decided to earmark 2 % of the investment i.e. about Rs. 99.36 lakhs approx. for CER activity. • These will be spent within first 5 years.
16.	For the DG sets, missions limits and the stack height shall be conformity with the extant regulations and the CPCB guidelines. Acoustic enclosures shall be provided to DG set for controlling the noise pollution.	Agreed
17.	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Industry will make the arrangement for protection of possible fire hazard during manufacturing process in material handling and firefighting system will be as per the norms.

18.	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per the Factories Act.	We are doing occupational health surveillance of the workers twice in the year & we will maintained record as per the factories act.
19.	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw material and finished products, and no parking to be allowed outside on public places.	Industry has proposed adequate space inside the plant premises for parking of vehicles for raw material & finished product.
20.	Storage of raw material shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	Industry will ensure that raw material will be either stored in silos or in covered areas to prevent dust pollution & other fugitive emission.
21.	Continuous online (24X7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge & the pollution concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within premises.	Industry will install continuous online monitoring system for stack emission.
22.	CO ₂ generated from the process shall be bottled/made solid ice and sold to authorized vendors.	Agreed
23.	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw material and finished products, and no parking to be allowed outside on public places.	Industry has proposed adequate space inside the plant premises for parking of vehicles for raw material & finished product.
General Conditions		
(i)	The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), Central Pollution Control Board, State Government and any other statutory authority.	Agreed for Compliance
(ii)	No further expansion or modifications in plant shall be carried out without prior approval of the Ministry of Environmental, Forest and Climate Change. In case any deviation or alteration in the project proposal from those submitted to the Ministry for clearance, a fresh reference shall be made to the Ministry to access the adequacy of condition imposed and to add addition environmental protection measure required, if any	Agreed
(iii)	The location of ambient air quality monitoring shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensure that at least one station is installed in the upwind and down wind direction as well as Where maximum ground, level concentrations are anticipated	Agreed & Complied. Ambient air monitoring have been attached as Annexure 4

(iv)	The National Ambient Air quality Emissions Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16 th November, 2009 shall be followed.	Agreed
(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, enclose etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment Protection) Act, 1986 Rule 1989 viz. 75 Db (day time) and 70 dBA (night time)	Agreed & Complied. Noise monitoring reports have been attached as Annexure 5
(vi)	The company shall harvest rainwater from roof-tops of the building and storm water drains to recharge the ground water and to utilize the same for process equipments.	Rain water from the roof tops of the buildings will be stored in storage tank 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 health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall undertake on regular basis. Training to all employees on handling of chemicals shall be imparted	Agreed Periodically training to all employees on safety & health aspects is provided regularly under the supervision of Safety committee.
(viii)	The company shall comply with all the environmental protection measures and safeguard proposed in the project report submitted to the Ministry. All the recommendation made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	The company will comply with all the environment protection measures & safeguards project shall be implemented
(ix)	The company shall undertake CSR activities and all relevant measures for improving the socioeconomics condition of surrounding area	<ul style="list-style-type: none"> • The proponent has decided to earmark 2.5% of the investment i.e. about Rs. 125 lakhs approx. • These will be spent within first 5 years. • Following activities will be implemented under CSR Plan. Major facets are given below- <ol style="list-style-type: none"> i. Education and Boarding for children of Workers ii. Seminars and training for farmers iii. Health camp, medical facilities iv. Tree plantation and providing saplings v. Women empowerment vi. Vocational training for

		youth vii. Funds for facilities in village and surrounding area viii. Funds to Chief Minister/Prime Minister Relief Fund
(x)	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment	The company will undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment
(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	Environmental Management Cell will be supervised by Project Engineer and qualified supervisors.
(xii)	The company shall earmark sufficient funds toward capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests 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 measure shall not be diverted for any other purpose	<ul style="list-style-type: none"> • Agreed. • The funds earmarked for environmental protection measures are kept in a separate account and never spend on other purposes. • We are submitting herewith funds allocated for Environmental Management Plan (EMP). During Construction phase: 23.67 Lakh During operational Phase: Total set up Cost: 5 Cr O & M cost : 2 Cr/annum
(xiii)	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggest suggestion/representation, if any, where received while processing the proposal	No suggestions / representations were received while processing the proposal from the local NGO. Copy of EC has been submitted to local body. Website is under maintenance, it will be uploaded once it is functional.
(xiv)	The project proponent shall also submit six monthly report on the status compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard as well as by e-mail) to respective Regional	We are submitting six monthly compliance reports along with monitoring results to the

	Office of MoEF, the respective zonal office CPCB and Maharashtra Pollution Control Board. A copy of Environmental Clearance and compliance status report shall be posted on the website of the company	concerned authorities, and same will also be posted on the website of the company.
(xv)	The environmental statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted to 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 by e-mail	We will submit the environmental statement report for each financial year to the Maharashtra pollution control board as prescribe 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.
(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 has been available at Website of the Ministry at http://moef.nic.in This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspaper 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	Advertisement had been published in local English 'Lokmat times' & Marathi newspaper 'Dainik Gavkari'. Advertisement copy is attached as Annexure 8
(xvii)	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 authority and the date of the start of the project	Agreed

4. Part D Annexures

4.1 Annexure 1- Environment Clearance Certificate

F. No. IA-J-11011/329/2016-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(IA- II Section)

Indira Paryavaran Bhawan
Jorbagh Road, New Delhi - 3

Dated: 8th January, 2019

To

M/s Agasti Sahakari Sakhar Karkhana Ltd
Agasti Nagar, Taluka Akole
District Ahmednagar (Maharashtra) – 422 601

Sub: Setting up Molasses based Distillery of capacity 30 KLPD by M/s Agasti Sahakari Sakhar Karkhana Ltd at Agasti Nagar, Taluka Akole, District Ahmednagar (Maharashtra) - Environmental Clearance - reg.

Sir,

This has reference to your proposal No. IA/MH/IND2/59752/2016 dated 26th September, 2018 submitting the EIA/EMP report on the above subject matter.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for setting up molasses based distillery of capacity 30 KLPD (Rectified Spirit/Extra Neutral Alcohol/Absolute Alcohol) by M/s Agasti Sahakari Sakhar Karkhana Ltd in a total area of 52.21 ha located at Agasti Nagar, Taluka Akole, District Ahmednagar (Maharashtra).

3. The land area available for the project is 52.21 ha, out of which greenbelt will be developed in an area of 17 ha, covering 33% of the total project area. The estimated project cost is Rs.49.98 crores. Total capital cost earmarked towards environmental pollution control measures is Rs.5 crores and the recurring cost (operation and maintenance) will be about Rs.2 crores per annum. Total employment opportunity will be for 64 persons.

4. There are no National parks, Wildlife sanctuaries, Biosphere reserves, Tiger/Elephant reserves, Wildlife corridors etc. within 10 km from the project site. Pravara river is flowing at a distance of 4 km (N) from the project site.

5. Total water requirement is estimated to be 482 cum/day, including fresh water requirement of 282 cum/day proposed to be met from Pravara river, which will be reduced to 240 cum/day during off season. Permission for surface water withdrawal of 0.42 MCM from Pravara river has been obtained from the State Water Resource Department, Government of Maharashtra vide letter dated 23rd August, 2018.

Spent wash will be treated through bio-methanation, multi effect evaporators (MEE) followed by bio-composting. There will be no discharge of treated/untreated waste water from the unit, and thus ensuring Zero Liquid Discharge.

Power requirement of 1.2 MW will be met from 10 TPH boiler. DG sets of 500 KVA (2 no.) will be used as standby during power failure. Stack (height 60) will be provided as per CPCB norms to the proposed DG sets. ESP with a stack of height of 60 m will be installed for controlling the particulate emissions within the statutory limit for the proposed boilers.

SN

CO₂ emission from process will be recovered and bottled in a 20 T capacity plant. Bagasse will be used as fuel in boiler. Press mud will be used for composting and as soil conditioner. ETP sludge will be used for landscaping.

6. The project/activities are covered under category A of item 5 (g) 'Molasses based distilleries' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal/approval at central level in the Ministry.

7. The terms of reference (ToR) for the project was granted on 31st May, 2017. Public hearing was conducted by the State Pollution Control Board on 8th September 2017.

8. The proposal for environmental clearance (EC) was placed before the EAC (Industry-2) in its meeting held on 29-31 October, 2018 in the Ministry. The project proponent and their consultant M/s Ultra Tech, Environment Consultancy and Laboratory presented the EIA/EMP report as per the ToR. The Committee found the EIA/EMP report satisfactory and in consonance with the ToR, and recommended the proposal for environmental clearance with certain conditions.

9. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **Setting up Molasses based Distillery of capacity 30 KLPD by M/s Agasti Sahakari Sakhar Karkhana Ltd** at Agasti Nagar, Taluka Akole, District Ahmednagar (Maharashtra), under the provisions of the EIA Notification, 2006, read with subsequent amendments therein, subject to compliance of the terms and conditions as environmental safeguards, as per Annexure.

10. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.


(S. K. Srivastava)
Scientist E

Copy to:-

1. The Additional PCCF (C), MoEF&CC Regional Office(WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Line, Nagpur - 1
2. The Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, Mumbai - 32
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th Floor, Opp. Cine Planet, Sion Circle, Mumbai - 22
5. Guard File/Monitoring File/Website/Record File


(S. K. Srivastava)
Scientist E
Page 2 of 6

Annexure


Environmental clearance to the project for Setting up Molasses based Distillery of capacity 30 KLPD by M/s Agasti Sahakari Sakhar Karkhana Ltd at Agasti Nagar, Taluka Akole, District Ahmednagar (Maharashtra)

[F. No. IA-J-11011/329/2016-IA-II(I); Proposal No. IA/MH/IND2/59752/2016 dated 26th September, 2018]

Terms and Conditions

- (i) Prior approval shall be obtained from the Petroleum & Explosives Safety Organization (PESO) for the site and layout plan submitted to this Ministry along with the proposal for EC. In case of any change therein post PESO approval, the proposal shall require fresh appraisal by the sectoral EAC.
- (ii) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (iii) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.
- (iv) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.
- (v) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- (vi) Total fresh water requirement shall not exceed 240 cum/day during off-season, proposed to be met from Pravara river. Prior permission shall be obtained from the concerned regulatory authority in this regard.
- (vii) The spent wash after bio-methanation shall be taken to multi effect evaporators (MEE) followed by bio-composting.
- (viii) Number of working/operating days for the distillery shall be 270 days as proposed. However, the same may be increased to 330 days/round the year subject to compliance of the Standard Operating Procedure for the bio-composting yard issued by the CPCB vide letter dated 9th August, 2018, and the same is ensured by the State Pollution Control Board while considering consent to operate.
- (ix) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- (x) Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- (xi) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.



- (xii) The company shall undertake waste minimization measures as below:-
- (a) Metering and control of quantities of active ingredients to minimize waste.
 - (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - (c) Use of automated filling to minimize spillage.
 - (d) Use of Close Feed system into batch reactors.
 - (e) Venting equipment through vapour recovery system.
 - (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xiii) The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- (xiv) All the commitments made regarding issues raised during the public hearing/consultation meeting shall be satisfactorily implemented.
- (xv) At least 2% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.
- (xvi) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- (xvii) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- (xviii) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (xix) There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.
- (xx) Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- (xxi) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (xxii) CO₂ generated from the process shall be bottled/made solid ice and sold to authorized vendors.
- (xxiii) There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.
- 

General Conditions

- (i) The project authorities shall adhere to the stipulations made by the State Pollution Control Board, Central Pollution Control Board, State Government and any other statutory authority.
- (ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each 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 16th November, 2009 shall be 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 generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (vi) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and to utilize the same for process requirements.
- (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.
- (viii) The company shall also comply with all the 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, and risk mitigation measures relating to the project shall be implemented.
- (ix) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration.
- (x) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (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.



- (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 report shall be posted on the website of the company.
- (xv) The environmental statement for each financial year ending 31st 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.
- (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 the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
- (xvii) The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.



4.2Annexure 2- Water drawl Permission

Page 1 of 1

Letter No./AESD/Sinchan/969/ of 2018

Akole Irrigation Sub Division Akole,
Tal-Akole, Dist-Ahmednagar, (MS)

Date- 23/08/2018

To,
Managing Director,
Agasti Sahakari Sakhar Karkhana Ltd;
Agastinagar, Tal-Akole, Dist-Ahmednagar (M.S)

Sub:- Water lifting permission from river Pravara....

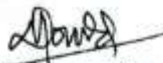
Ref:- Your Letter No.Agasti/30/Adm/1102/2018-19 dated-19/08/2018

Respected Sir,

With reference to above, the water lifting permission from river Pravara Tal-Akole, Dist-Ahmednagar, (M.S) given to Agasti Sahakari Sakhar Karkhana Ltd; Agastinagar, Tal-Akole, Dist-Ahmednagar, (M.S) is of 15.00 MCFT (0.42 MCM) as per Govt. resolution No. BKS/1005/(506/2005)/ irrigation Dated 03/11/2006.

This is for your information please.

R. D. Arote
Sub-Divisional Engineer
Akole Irrigation Sub-Division, Akole


Sub Divisional Engineer,
Akole Irrigation Sub Division
Akole, Dist-Ahmednagar (M.S)

4.3 Annexure 3- Petroleum & Explosive Safety Organization (PESO) approval


GOVERNMENT OF INDIA
Ministry of Commerce & Industry
Petroleum & Explosives Safety Organisation (PESO)
5th Floor, A-Block, CGO Complex, Seminar Hall,
Nagpur - 440006


E-mail: explosives@explosives.gov.in
Phone/Fax No: 0712-2610248, Fax-2610577

APM/MH/16/7262 (M431420)

M/s. Agasti Sahakari Sakhar Karkhana Ltd.,
At Post Agastinagar, ...
Taluka Akole District Ahmednagar - 422601
Akole,
District: AHMEDNAGAR
State: Maharashtra
PIN: 422601

2002
11/11/2018
Sign
(Inward Copy)

Date: 02/11/2018
5 NOV 2018

Out No. 53/1 & 53/2, Post Agastinagar, Akole, Akole, Taluka: Akole, District: AHMEDNAGAR, State: Maharashtra, PIN: 422601. For the purpose of A. Approval & application form (A) Approval Regarding

Please refer to your letter No. QIN226712 dated 31/10/2018.

Drawing(s) nos. PIASKA/NB/105/10-201 dated 31/10/2018, PIASKA/NB/105/1-201 dated 31/10/2018, together with the site plan and layout etc. of the specified installation is/are approved and one copy of the same is returned herewith in token of approval.

The following documents which are necessary in connection with the grant of a licence in Form XV of the Petroleum Rules, 2002 for the above installation may please be submitted to this office for further action in the matter.

1. Application in Form IX (enclosed) duly filled in and signed.
2. A Bank Draft for Rs. 50000/- (per year - maximum upto 10 years) being the requisite licence fee. The bank draft should be drawn on any Nationalised Bank in the favour of Chief Controller of Explosives Payable at Nagpur (M.S.).
3. Four copies of the approved plans.
4. Safety and Test Certificate required under rule 130 and 126 of the Petroleum Rules, 2002 (enclosed) issued by Competent person.
5. Original copy of 'No Objection Certificate' from the District Authority together with site plan duly endorsed by him with his office seal thereon.
6. Specimen signature(s) of the person(s) authorised to sign the correspondence intended for this organisation.
7. Copy of Hazard Study & Risk Analysis Report.
8. Copy of On-Site Emergency Plan.
9. Copy of Safety Report under Rule 10 of MSIHC Rule, 1985.

Please follow the requirements/provision of "Solvent, Raffinate and Slag (Acquisition, Sale, Storage & Prevention of use in Automobiles)" Order 2020 notified by Government of India, Ministry of Petroleum and Natural Gas vide G.S.R. 519 (R) dated 05/06/2020.

This approval/permission, however, does not absolve from obtaining necessary permission/consent from other authorities or under other statutes as applicable.

Yours faithfully,

(Dy. Controller)
(Ninad Dattaram Gawade)
Dy. Controller of Explosives
For Chief Controller of Explosives
Nagpur

(For more information regarding status/fee and other details please visit our website <http://peso.gov.in>)

4.4 Annexure 4 Ambient Air Monitoring Report

4.4.1 Ambient air monitoring report of ASSKL main gate location for month July.



Excellent Enviro Laboratory & Research Center

TEST CERTIFICATE				
Report No: EEL/ABD/A-351/07/2019-20		Date of Report		16/07/2019
Client Name and Address: M/s. Agasti Sahakari Sakhar Karkhana Ltd. (Distillery Unit), Agastinagar, Post – Agasti, Tal – Akole, Dist – Ahmednagar		Date of Sampling		09/07/2019
		Start Date of Analysis		10/07/2019
		End Date of Analysis		14/07/2019
		Sample Details		Ambient Air
		Sample Location		Near Main Gate
		Time of Sampling		09:30
Sample Collected By		Atharva Enviro Services		
Ambient Air Analysis Report				
Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	29	°C	
2.	Dry Bulb Temperature	28	°C	
3.	Wet Bulb Temperature	22	°C	
4.	Relative Humidity	52	% RH	
5.	Sampling Duration	1440	Min	
6.	Sulphur Dioxide(SO ₂)	19.20	µg/M ³	≤ 80
7.	Oxides of Nitrogen(NO ₂)	22.40	µg/M ³	≤ 80
8.	Particulate Matter PM ₁₀	61.30	µg/M ³	≤ 100
9.	Particulate Matter PM _{2.5}	30.82	µg/M ³	≤ 60
10.	Carbon Monoxide (CO)	0.014	mg/M ³	≤ 04
11.	Ozone(O ₃)	<20	µg/M ³	≤ 180
12.	Lead (Pb)	BDL	µg/M ³	≤ 1.0
13.	Ammonia(NH ₃)	BDL	µg/M ³	≤ 400
14.	Benzene(C ₆ H ₆)	BDL	µg/M ³	≤ 05
15.	Benzo(a) Pyrene(BaP)	BDL	ng/M ³	≤ 01
16.	Arsenic(As)	BDL	ng/M ³	≤ 06
17.	Nickel(Ni)	BDL	ng/M ³	≤ 20
Remark- ➤ All above results are within National Ambient Air Quality standards. ➤ BDL – Below Detectable Limit.				

ANALYZED BY-

AUTHORIZED SIGNATORY-

AN "ENVIRONMENTAL LABORATORY"

Recognised by MOEF & CC, New Delhi, Gazette Notification S.O. 368 (E) Dated (09 February 2019) (09 February 2022)

REGISTERED OFFICE:
D-52/18, MIDC Waluj,
Aurangabad - 431 136.
Ph. 0240-6641879
✆ 07745069991
08668441453

MUMBAI OFFICE
Dhawalgiri Co-op. Hsg. Society,
Building No.1, Flat No. B-3,
Near Peace Park Hotel,
Thana Naka, Parvel - 410 206
✆ 09730744665/08668441453

PUNE OFFICE
Gut No. 1252, Tuljai Nagar
Behind Gharkul Building
No. C-11, Spine Road
Newale Wasti Chikhali
Pune - 411062
✆ 09767838931/08668441453

Website : www.eelab.in/ eelab@excellentenviro.com



ISO 14001:2015
NABL & MOEF & CC
approved laboratory
By Govt. of India

4.4.2 Ambient air monitoring report of ASSKL near construction activity for month July.



Excellent Enviro Laboratory & Research Center

TEST CERTIFICATE

Report No: EEL/ABD/A-350/07/2019-20	Date of Report	16/07/2019
Client Name and Address: M/s. Agasti Sahakari Sakhar Karkhana Ltd. (Distillery Unit), Agastinagar, Post – Agasti, Tal – Akole, Dist – Ahmednagar	Date of Sampling	09/07/2019
	Start Date of Analysis	10/07/2019
	End Date of Analysis	14/07/2019
	Sample Details	Ambient Air
	Sample Location	Near Construction Activity
	Time of Sampling	09:45
Sample Collected By	Atharva Enviro Services	

Ambient Air Analysis Report

Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	29	°C	
2.	Dry Bulb Temperature	28	°C	
3.	Wet Bulb Temperature	22	°C	
4.	Relative Humidity	52	% RH	
5.	Sampling Duration	1440	Min	
6.	Sulphur Dioxide(SO ₂)	28.21	µg/M ³	≤ 80
7.	Oxides of Nitrogen(NO ₂)	21.62	µg/M ³	≤ 80
8.	Particulate Matter PM ₁₀	76.70	µg/M ³	≤ 100
9.	Particulate Matter PM _{2.5}	39.92	µg/M ³	≤ 60
10.	Carbon Monoxide (CO)	0.012	mg/M ³	≤ 04
11.	Ozone(O ₃)	<20	µg/M ³	≤ 180
12.	Lead (Pb)	BDL	µg/M ³	≤ 1.0
13.	Ammonia(NH ₃)	BDL	µg/M ³	≤ 400
14.	Benzene(C ₆ H ₆)	BDL	µg/M ³	≤ 05
15.	Benzo(a) Pyrene(BaP)	BDL	ng/M ³	≤ 01
16.	Arsenic(As)	BDL	ng/M ³	≤ 06
17.	Nickel(Ni)	BDL	ng/M ³	≤ 20

Remark-

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

ANALYZED BY-

AUTHORIZED SIGNATORY-



AN "ENVIRONMENTAL LABORATORY"

Recognised by MOEF & CC, New Delhi, Gazette Notification S.O. 388 (E) Dated (09 February 2017) (09 February 2022)

REGISTERED OFFICE :
D-52/18, MIDC Waluj,
Aurangabad - 431 136.
Ph. 0240-6641879
07745069991
08668441453

MUMBAI OFFICE
Dhawalgiri Co-op. Hsg. Society,
Building No.1, Flat No. B-3,
Near Peace Park Hotel,
Thana Naka, Parvel - 410 206
09730744665/08668441453

PUNE OFFICE
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4.4.3 Ambient air monitoring report of ASSKL main gate location for month September.



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TEST CERTIFICATE				
Report No: EEL/ABD/A-359/09/2019-20		Date of Report	17/09/2019	
Client Name and Address: M/s. AgastiSahakariSakharKarkhana Ltd. (Distillery Unit), Agastinagar, Post – Agasti, Tal – Akole, Dist – Ahmednagar		Date of Sampling	10/09/2019	
		Start Date of Analysis	11/09/2019	
		End Date of Analysis	17/09/2019	
		Sample Details	Ambient Air	
		Sample Location	Near Construction Activity	
Sample Collected By		Time of Sampling	09:45	
		Atharva Enviro Services		
Ambient Air Analysis Report				
Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	27	°C	
2.	Dry Bulb Temperature	27	°C	
3.	Wet Bulb Temperature	22	°C	
4.	Relative Humidity	62	% RH	
5.	Sampling Duration	1440	Min	
6.	Sulphur Dioxide(SO ₂)	22.6	µg/M ³	≤ 80
7.	Oxides of Nitrogen(NO ₂)	19.5	µg/M ³	≤ 80
8.	Particulate Matter PM ₁₀	72.4	µg/M ³	≤ 100
9.	Particulate Matter PM _{2.5}	33.6	µg/M ³	≤ 60
10.	Carbon Monoxide (CO)	0.018	mg/M ³	≤ 04
11.	Ozone(O ₃)	<20	µg/M ³	≤ 180
12.	Lead (Pb)	BDL	µg/M ³	≤ 1.0
13.	Ammonia(NH ₃)	BDL	µg/M ³	≤ 400
14.	Benzene(C ₆ H ₆)	BDL	µg/M ³	≤ 05
15.	Benzo(a) Pyrene(BaP)	BDL	ng/M ³	≤ 01
16.	Arsenic(As)	BDL	ng/M ³	≤ 06
17.	Nickel(Ni)	BDL	ng/M ³	≤ 20
Remark- ➤ All above results are within National Ambient Air Quality standards. ➤ BDL – Below Detectable Limit.				
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07745069991
08668441453

MUMBAI OFFICE

Dhawalgiri Co-op. Hsg. Society,
Building No.1, Flat No. B-3,
Near Peace Park Hotel,
Thane Naka, Panvel - 410 206
09730744665/08668441453

PUNE OFFICE

Gut No. 1252, Tulaj Nagar
Behind Gharkul Building
No. C-11, Spine Road
Newale Wasti Chikhali
Pune - 411062

Website : www.eelab.in/ eelab@excellentenviro.com 09767838931/08668441453



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4.4.4 Ambient air monitoring report of ASSKL near construction activity for month September.



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TEST CERTIFICATE				
Report No: EEL/ABD/A-360/09/2019-20		Date of Report	17/09/2019	
Client Name and Address: M/s. AgastiSahakariSakharKarkhana Ltd. (Distillery Unit), Agastinagar, Post – Agasti, Tal – Akole, Dist – Ahmednagar		Date of Sampling	10/09/2019	
		Start Date of Analysis	11/09/2019	
		End Date of Analysis	17/09/2019	
		Sample Details	Ambient Air	
		Sample Location	Near Main Gate	
Sample Collected By		Time of Sampling	09:30	
		Atharva Enviro Services		
Ambient Air Analysis Report				
Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	27	°C	
2.	Dry Bulb Temperature	27	°C	
3.	Wet Bulb Temperature	22	°C	
4.	Relative Humidity	62	% RH	
5.	Sampling Duration	1440	Min	
6.	Sulphur Dioxide(SO ₂)	29.4	µg/M ³	≤ 80
7.	Oxides of Nitrogen(NO ₂)	17.8	µg/M ³	≤ 80
8.	Particulate Matter PM ₁₀	58.5	µg/M ³	≤ 100
9.	Particulate Matter PM _{2.5}	23.6	µg/M ³	≤ 60
10.	Carbon Monoxide (CO)	0.02	mg/M ³	≤ 04
11.	Ozone(O ₃)	<20	µg/M ³	≤ 180
12.	Lead (Pb)	BDL	µg/M ³	≤ 1.0
13.	Ammonia(NH ₃)	BDL	µg/M ³	≤ 400
14.	Benzene(C ₆ H ₆)	BDL	µg/M ³	≤ 05
15.	Benzo(a) Pyrene(BaP)	BDL	ng/M ³	≤ 01
16.	Arsenic(As)	BDL	ng/M ³	≤ 06
17.	Nickel(Ni)	BDL	ng/M ³	≤ 20

Remark-

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

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Aurangabad - 431 136.
Ph. 0240-6641879
✆ 07745069991
08668441453

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Dhawalgi Co-op. Hsg. Society,
Building No.1, Flat No. B-3,
Near Peace Park Hotel,
Thana Naka, Panvel - 410 206
✆ 09730744665/08668441453

PUNE OFFICE
Grt No. 1252, Tulaj Nagar
Behind Gharwal Building
No. C-11, Spine Road
Newale West Chikhali
Pune - 411062
✆ 09767838931/08668441453

Website : www.eelab.in/ eelab@excellentenviro.com



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4.4.5 Ambient air monitoring report of ASSKL main gate location for month November.



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TEST CERTIFICATE

Report No: EEL/ABD/A-356/11/2019-20	Date of Report	16/11/2019
Client Name and Address:	Date of Sampling	09/11/2019
M/s. AgastiSahakariSakharKarkhana Ltd.	Start Date of Analysis	11/11/2019
(Distillery Unit), Agastinagar, Post – Agasti,	End Date of Analysis	16/11/2019
Tal – Akole, Dist – Ahmednagar	Sample Details	Ambient Air
	Sample Location	Near Main Gate
	Time of Sampling	09:30
Sample Collected By	Atharva Enviro Services	

Ambient Air Analysis Report

Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	27	°C	
2.	Dry Bulb Temperature	27	°C	
3.	Wet Bulb Temperature	21	°C	
4.	Relative Humidity	57	% RH	
5.	Sampling Duration	1440	Min	
6.	Sulphur Dioxide(SO ₂)	17.6	µg/M ³	≤ 80
7.	Oxides of Nitrogen(NO ₂)	19.5	µg/M ³	≤ 80
8.	Particulate Matter PM ₁₀	55.4	µg/M ³	≤ 100
9.	Particulate Matter PM _{2.5}	28.6	µg/M ³	≤ 60
10.	Carbon Monoxide (CO)	0.019	mg/M ³	≤ 04
11.	Ozone(O ₃)	<20	µg/M ³	≤ 180
12.	Lead (Pb)	BDL	µg/M ³	≤ 1.0
13.	Ammonia(NH ₃)	BDL	µg/M ³	≤ 400
14.	Benzene(C ₆ H ₆)	BDL	µg/M ³	≤ 05
15.	Benzo(a) Pyrene(BaP)	BDL	ng/M ³	≤ 01
16.	Arsenic(As)	BDL	ng/M ³	≤ 06
17.	Nickel(Ni)	BDL	ng/M ³	≤ 20

Remark-

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

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Aurangabad - 431 136.
Ph. 0240-6641879
✆ 07743069991
08668441453

MUMBAI OFFICE
Dhawalgiri Co-op. Hsg. Society,
Building No.1, Flat No. B-3,
Near Peace Park Hotel,
Thane Naka, Parvel - 410 206
✆ 09730744665/08668441453

PUNE OFFICE
Gut No. 1252, Tuljai Nagar
Behind Gharkul Building
No. C-11, Spine Road
Newale Wasti Chikhali
Pune - 411062

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4.4.6 Ambient air monitoring report of ASSKL near construction activity for month November



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TEST CERTIFICATE

Report No: EEL/ABD/A-355/11/2019-20	Date of Report	16/11/2019
Client Name and Address: M/s. Agasti Sahakari Sakhar Karkhana Ltd. (Distillery Unit), Agastinagar, Post – Agasti, Tal – Akole, Dist – Ahmednagar	Date of Sampling	09/11/2019
	Start Date of Analysis	11/11/2019
	End Date of Analysis	16/11/2019
	Sample Details	Ambient Air
	Sample Location	Near Construction Activity
	Time of Sampling	09:45
Sample Collected By	Atharva Enviro Services	

Ambient Air Analysis Report

Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	27	°C	
2.	Dry Bulb Temperature	27	°C	
3.	Wet Bulb Temperature	21	°C	
4.	Relative Humidity	57	% RH	
5.	Sampling Duration	1440	Min	
6.	Sulphur Dioxide(SO ₂)	23.7	µg/M ³	≤ 80
7.	Oxides of Nitrogen(NO _x)	18.9	µg/M ³	≤ 80
8.	Particulate Matter PM ₁₀	80.5	µg/M ³	≤ 100
9.	Particulate Matter PM _{2.5}	45.8	µg/M ³	≤ 60
10.	Carbon Monoxide (CO)	0.017	mg/M ³	≤ 04
11.	Ozone(O ₃)	<20	µg/M ³	≤ 180
12.	Lead (Pb)	BDL	µg/M ³	≤ 1.0
13.	Ammonia(NH ₃)	BDL	µg/M ³	≤ 400
14.	Benzene(C ₆ H ₆)	BDL	µg/M ³	≤ 05
15.	Benzo(a) Pyrene(BaP)	BDL	ng/M ³	≤ 01
16.	Arsenic(As)	BDL	ng/M ³	≤ 06
17.	Nickel(Ni)	BDL	ng/M ³	≤ 20

Remark-

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

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Aurangabad - 431 136.
Ph. 0240-6641879
☎ 07745069991
08668441453

MUMBAI OFFICE

Dhawalgirl Co-op. Hsg. Society,
Building No.1, Flat No. B-3,
Near Peace Park Hotel,
Thana Naka, Panvel - 410 206
☎ 09730744665/08668441453

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4.5 Annexure 5 Noise Monitoring Report

4.5.1 Noise Monitoring report of ASSKL location main gate & near construction activity for July month



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TEST CERTIFICATE

Report No: EEL/ABD/N-348/07/2019-20	Date of Report	16/07/2019
Client Name and Address: M/s. Agasti Sahakari Sakhar Karkhana Ltd. (Distillery Unit), Agastinagar, Post – Agasti, Tal – Akole, Dist – Ahmednagar.	Date of Sampling	09/07/2019
Sample Collected By	Sample Details	Ambient Noise
M/s. Atharva Enviro Services		

Ambient Noise Report

Sr. No.	Location	Result dB(A) Day	Result dB(A) Night	CPCB Standards dB(A)
1.	Near Main Gate	63.4	54.2	75/70
2.	Near Construction Activity	79.3	61.5	

Remark-

- All above Noise level results are within Central Pollution Control Board Standards limit.
- Day/Night -75/70 dB.

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✆ 07745069991
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Building No.1, Flat No. B-3,
Near Peace Park Hotel,
Thane Naka, Parvel - 410 206
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Behind Gharkul Building
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4.5.2 Noise Monitoring report of ASSKL location main gate & near construction activity for September month



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TEST CERTIFICATE				
Report No: EEL/ABD/N-357/09/2019-20		Date of Report: 17/09/2019		
Client Name and Address: M/s. AgastiSahakariSakharKarkhana Ltd. (Distillery Unit), Agastinagar, Post - Agasti, Tal - Akole, Dist - Ahmednagar.		Date of Sampling: 10/09/2019		
Sample Collected By		M/s. Atharva Enviro Services		
Sample Details: Ambient Noise				
Ambient Noise Report				
Sr. No.	Location	Result dB(A) Day	Result dB(A) Night	CPCB Standards dB(A)
1.	Near Main Gate	65.7	55.8	75/70
2.	Near Construction Activity	77.4	63.2	
Remark- ➤ All above Noise level results are within Central Pollution Control Board Standards limit. ➤ Day/Night -75/70 dB.				
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Near Peace Park Hotel,
Thana Naka, Panel - 410 206
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4.5.3 Noise Monitoring report of ASSKL location main gate & near construction activity for November month



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TEST CERTIFICATE				
Report No: EEL/ABD/N-352/11/2019-20		Date of Report		16/11/2019
Client Name and Address: M/s. AgastiSahakariSakharKarkhana Ltd. (Distillery Unit), Agastinagar, Post – Agasti, Tal – Akole, Dist – Ahmednagar.		Date of Sampling		09/11/2019
		Sample Details		Ambient Noise
Sample Collected By		M/s. Atharva Enviro Services		
Ambient Noise Report				
Sr. No.	Location	Result dB(A) Day	Result dB(A) Night	CPCB Standards dB(A)
1.	Near Main Gate	64.8	52.9	75/70
2.	Near Construction Activity	77.6	59.7	
Remark- ➤ All above Noise level results are within Central Pollution Control Board Standards limit. ➤ Day/Night -75/70 dB.				
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Ph. 0240-6641879
07745069991
08668441453

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Building No.1, Flat No. B-3,
Near Peace Park Hotel,
Thana Noka, Parvel - 410 206
09730744665/08668441453

PUNE OFFICE
Gut No. 1252, Tuljal Nagar
Behind Gharkul Building
No. C-11, Spine Road
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4.6 Annexure 6 Soil Analysis Report

4.6.1 Soil analysis report of ASSKL near construction activity for November month



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TEST CERTIFICATE

Report No: EEL/ABD/SO-354/11/2019-20	Date of Report	16/11/2019		
Client Name and Address: M/s. AgastiSahakariSakharKarkhana Ltd. (Distillery Unit), Agastinagar, Post – Agasti, Tal – Akole, Dist – Ahmednagar.	Date of Sampling	09/11/2019		
	Start Date of Analysis	11/11/2019		
	End Date of Analysis	16/11/2019		
	Sample Details	Soil-Near construction Activity		
	Nature of sample	Solid		
Sample Collected By	M/s. Atharva Enviro Services			
SOIL ANALYSIS REPORT				
Sr. No.	Parameter	Result	Unit(s)	Standard Method
1.	pH	7.6	----	ISO 9001-2000
2.	EC	2.5	Mmhos/cm	ISO 9001-2000
3.	Chloride	323.0	Mg/kg	ISO 9001-2000
4.	Sulphate	125.6	Mg/kg	ISO 9001-2000
5.	Sodium as Na	133.6	Mg/kg	ISO 9001-2000
6.	Potassium as K	40.5	Mg/kg	ISO 9001-2000
7.	Available Phosphorus as P	5.3	Mg/kg	ISO 9001-2000
8.	Total Nitrogen as N	6.8	Mg/kg	ISO 9001-2000
9.	Lead as Pb	0.31	Mg/kg	AAS Method
10.	Chromium as Cr	0.19	Mg/kg	AAS Method
11.	Cadmium as Cd	0.06	Mg/kg	AAS Method
12.	Zinc as Zn	1.8	Mg/kg	AAS Method
13.	Iron as Fe	3.2	Mg/kg	AAS Method
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Aurangabad - 431 136.
Ph. 0240-6641879
07745069991
08668441453

MUMBAI OFFICE

Dhawalgiri Co-op. Hsg. Society,
Building No.1, Flat No. B-3,
Near Peace Park Hotel,
Thane Naka, Panvel - 410 206
09730744565/08668441453

PUNE OFFICE

Gut No. 1252, Tuljai Nagar
Behind Gharul Building
No. C-11, Spine Road
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4.7 Annexure 7 Drinking Water Analysis Report

4.7.1 Drinking water analysis report of ASSKL of construction site for July month



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TEST CERTIFICATE

Report No: EEL/ABD/DW-349/07/2019-20	Date of Report	16/07/2019
Client Name and Address: M/s. Agasti Sahakari Sakhar Karkhana Ltd. (Distillery Unit), Agastinagar, Post - Agasti, Tal - Akole, Dist - Ahmednagar.	Date of Sampling	09/07/2019
	Start Date of Analysis	10/07/2019
	End Date of Analysis	14/07/2019
	Sample Details	Drinking Water- Construction site
	Nature of sample	Liquid
Sample Collected By	M/s. Atharva Enviro Services	

DRINKING WATER ANALYSIS REPORT

Sr. No.	Parameter	Result	Limits as per IS 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Color	0.4	<5	Hazen	IS : 3025 (Part 4):1983
2.	Turbidity	0.19	<1	NTU	IS : 3025 (Part 10):1984
3.	TDS	83.0	<500	ppm	IS : 3025 (Part 16):1984
Chemical Parameter					
4.	pH	7.2	6.5 to 8.5	--	IS:3025 Part 11(R.A:2012)
5.	Total Hardness	88.0	<200	mg/lit	IS:3025 Part-21(R.A:2012)
6.	Total Alkalinity	18.6	<200	mg/lit	IS:3025 Part-23(R.A:2012)
7.	Sulphate	4.2	<200	mg/lit	IS:3025 Part-24(R.A:2012)
8.	Residual Chlorine	NIL	<0.2	mg/lit	IS : 3025 (Part 26):1986
9.	Chloride	18.4	<250	mg/lit	IS:3025 Part-32(R.A:2014)
10.	Calcium (as Ca)	24.3	<75	mg/lit	IS:3025 Part-40(R.A:2012)
11.	Magnesium (as Mg)	6.4	<30	mg/lit	IS:3025 Part-46(R.A:2012)
Microbiological Parameter					
12.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1996
13.	E.coli.	Absent	Absent	per/100ml	IS 1622:1996

Remark(s):

- The above water sample is Comply with required limit as per 10500:2012.
- For Total Coliform & E.coli. <2 can be consider as Zero [Refer IS: 1622 (R.A.1996), Table No.-4].
- BDL: Below Detection Limit.

ANALYZED BY: 



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D-52/18, MIDC Waluj,
Aurangabad - 431 136.
Ph. 0240-6641879
07745069991
08668441453

MUMBAI OFFICE
Dhawalgi Co-op. Hsg. Society,
Building No.1, Flat No. 8-3,
Near Peace Park Hotel,
Thana Naka, Panvel - 410 206
09730744665/08668441453

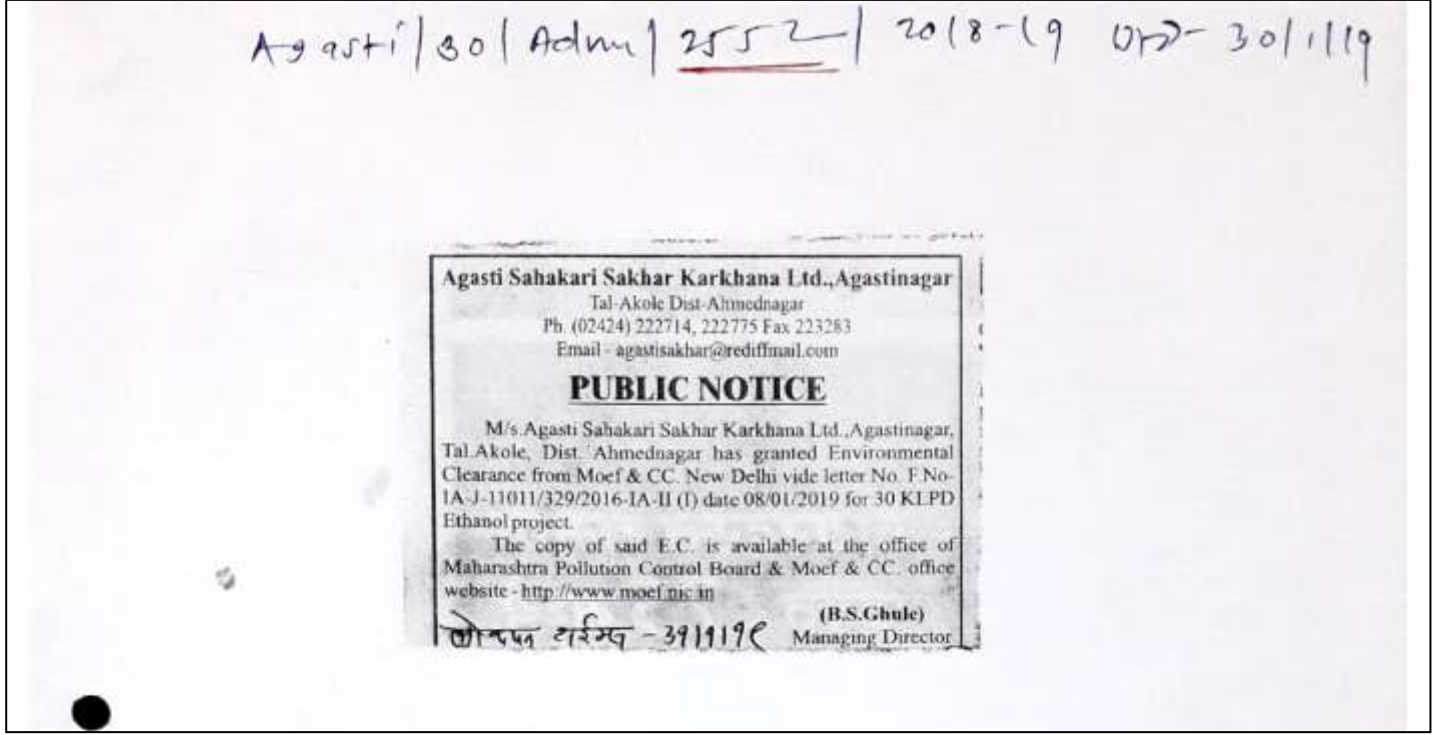
PUNE OFFICE
Gut No. 1252, Tuljai Nagar
Behind Gharial Building
No. C-11, Spine Road
Newade Wasti Chikhali
Pune - 411062
09767838931/08668441453



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