

Dattatraynagar, Pargaon Via Awasari (Bk.)
Tal : Ardegaon, Dist : Pune. 412 406
TELEFAX : (02133) 284231, 284232, 284241,
284246, 284270, 9975588130



BHIMASHANKAR
SAHAKARI SAKHAR KARKHANA LTD.

Telegram : Bhimashankar Sugar
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Regd. No.: P.N.A/A.G.N/P.R.G.(A) S-47/1994 DL31/3/1994

BSSK/Mfg/ 7/2. /2021-22

By Mail

Date:- 22/06/2021

To,
The Deputy Director General of Forests (Central)
West Central Zone,
Regional Office,
Near Secretariat building,
VCA Ground, Civil lines, Nagpur-440001.
E mail I.D. - ecompliance-mh@gov.in.

Sub- Submission of Six Monthly EC Compliance Report.
(1st Jan 2021 to 30 June 2021)
Ref- SIA/MH/IND2/44156/2018 Dt - 31/03/2020
E.C. received dt.23/07/2020

Dear Sir,

Factory has received environment clearance on SIA/ MH/ IND2/ 44156/2018 dt.31/03/2020 for 45 KLPD Distillery. (E.C. received dt.23/07/2020). However, factory has not yet started its erection and commissioning work. Due to increase in cane capacity to 6000 TCD in 2020-21, molasses availability will also increase. Therefore, considering molasses availability, management has decided to enhance distillery capacity from 45 KLPD to 95 KLPD within factory premises and applied for the grant of ToR for proposed expansion of distillery from 45 to 95 KLPD.

State Level Environment Impact Assessment Authority granted our ToR for expansion from 45 to 95 KLPD vide letter /file NO. SIA/ MH/ IND2/ 59337/ 2020, dt.24/12/2020.(Copy is Attached)EIA is Submitted by factory on 17th May2021& MPCB Scheduled public hearing on 15th July 2021 at Karkhana site in presence of District collector of Pune.

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Though we have not yet started our proposed distillery erection, we are started to comply conditions as per conditions given in 45 KLPD E.C. The details are attached for your information.

Thanking you.

Yours Faithfully,


(C. V. Dhage)
Managing Director.

Encl-1) Environment Clearance Copy. 2) Part- A – Data Sheet.
3) Six Monthly EC Compliance report 4) 95 KLPD Dist. ToR copy.

- Copy to-1) Central Pollution Control Board,
Parivesh Bhavan, East, Arjun Nagar,
Shahadra, Delhi-110032
- 2) Environment Department,
15 th floor, New Administrative Building,
Madam Cama Road, Mantralaya,
Mumbai – 400032.
- 3) The Regional Officer,
Maharashtra Pollution Control Board,
3rd Floor, “Jog Center” Building,
Wakadewadi, Pune . 411003.
- 4) The Sub- Regional Officer II,
Maharashtra Pollution Control Board,
2nd floor, “Jog Center” Building,
Wakadewadi, Pune 411 003.

Annexure

Sr.No.	Details	Page No.
1.	45 KLPD Distillery E.C	1-4
2.	Six monthly Compliance Report –Part I-Data Sheet	5-7
3.	EC Compliance Conditions -	8-14
	I)Co2 Bottling Plant details	15-21
	II) Sewage Treatment Plant Details	22-33
	III)Consent Compliance Report	34-36
	IV)Health Checkup Camp Details	37
	V) Ground water report(Season-2020-21)	38-68
	VI)Noise Monitoring report(Season-2020-21)	69-73
	VII) Green Belt Details	74-77
	VIII) Regular Mock Drills Details	78-79
	IX) Newspapers advertise Details	80-81
	X) Website Screen Shot-Compliance Report	82-84
XI)Environment Statement	85-89	
4.	95 KLPD ToR Application Details	90-96

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31/03/2020

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

No. SLA/SEI/IND/2/44156/2018,
Environment Department
Room No. 217, 2nd Floor,
Maharaja,
Mumbai-400032.
Date: 31-03-2020

To
M/s. Bhimashankar Sahakar
Sakhar Karkhana Ltd (BSSKL),
Dattabayanagar, A/P Pargan Via
Awassari Bk, Tal. Ambegaon,
District: Pune

Subject : Environment Clearance for Proposed 45 KLPD Distillery Project at Dattabayanagar, A/P Pargan Via Awassari Bk, Tal. Ambegaon, District: Pune, Maharashtra by Bhimashankar Sahakar Sakhar Karkhana Ltd (BSSKL)

Reference : SLA/MI/IND/2/44156/2018

This has reference to your communication on the above mentioned subject. The proposal was considered by the SLAC-3 in its 177th meeting under screening category 5(g) Distillery as per EIA Notification, 2006 and recommended to SEIAA. Proposal then considered in 192nd meeting of State Level Environment Impact Assessment Authority (SEIAA).

2. Brief information of the project submitted by you is as below:-

- > The ToR for proposed activity is granted by the EAC, MoEF&CC vide letter No. JA J. 1101/234/2018-IA-II(i) dated 16.08.2018 for 45 KLPD distillery unit. The PP has now submitted EIA/EEMP report for appraisal. The Public Hearing was carried out on 03.07.2019 and is included in the EIA report.
- > The total plot area is 58.67 Ha. The land required for the distillery will be 8.0 Ha. PP proposes EEMP cost of Rs. 1023.30 Lakhs as capital cost and Rs. 64.95 lakhs as recurring cost for O&M of environmental infrastructures. The unit will be operated for 330 days/Year.
- > PP proposes to manufacture following products.
1. Rectified Spirit/ ENA/Ethanol - 45 KLPD
- > PP informed that, the fresh water requirement will be 378 KLD which will be lifted from the Ghod River and 489 KLD treated waste water will be recycled in the process. PP has obtained water lifting permission from Irrigation Department.
- > The trade effluent generation from proposed 45 KLPD distillery unit will be 421 KLD in the form of spent wash which will be treated in the MEE and further formed concentrated spent wash 87 KLD will be incinerated in the incineration boiler. Other effluent from the distillery (namely MEE condensate, spent less, cooling and boiler blow down, job & washing) will be 480 KLD be treated in proposed CPU and will be fully reused in the process.
- > PP further informed that, the estimated quantity of carbon dioxide generation is 18 MT/Day which will be cleaned, compressed and bottled and supplied to the manufactures of beverages etc.
- > PP has provided Electrostatic Precipitator followed by bag filter with 60 meter stack height as air pollution control measures for existing 16 TPH boiler.
- > The ash generated from 16 TPH incineration boiler will be given for brick manufacturing.

PM
17/3

- PP also proposed to adopt measures like good housekeeping, sludge management in biological processes, steaming of major pipelines, regular use of bleaching powder etc. to control the odour problem.
- PP agreed to develop green belt over an area of 19.36 ha. (33% of total plot area) by planting 30000 nos. of indigenous trees.
- PP to plan and implement their CSR fund to create sustainable infrastructure like clean drinking water, sanitation facilities, solar energy in the Z.P. Schools/ Primary Health Centres in the study area of the project in consultation with the District Authority.

1. The proposal has been considered by SEIAA in its 192nd meeting and decided to accord Environment Clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of following terms and conditions-

Specific Conditions:

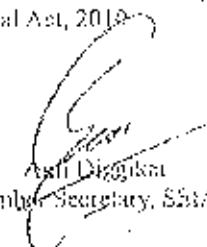
- I. PP to undertake handling of carbon dioxide gas generated in the process. PP to ensure that no carbon dioxide will be emitted to the atmosphere.
- II. PP to provide sewage treatment plant for the treatment of domestic sewage generated within the factory and residential colony of the factory.
- III. PP to carry out physico-chemical analysis of the LTP sludge and obtain approval from the Agriculture Department for its suitability to be used as manure.
- IV. PP to ensure close storage of all the raw material and waste material so as to avoid odour nuisance.
- V. As per point No. 3 s(b) of the Standard TOR, PP to submit to the SEIAA a copy of point wise compliance of the consent conditions to be obtained from the Maharashtra Pollution Control Board.
- VI. PP to undertake sugarcane productivity enhancement program so as to increase per hectare yield of sugarcane in the factory area.
- VII. PP to ensure that revised CSR plan gets approved from District Collector.

General Conditions:

- I. PP to achieve Zero Liquid Discharge; PP shall ensure that there is no increase in the effluent load to CRTP.
- II. No additional land shall be used/acquired for any activity of the project without obtaining proper permission.
- III. PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.
- IV. Proper Housekeeping programmes shall be implemented.
- V. In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.
- VI. A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).
- VII. A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
- VIII. Arrangement shall be made that effluent and storm water does not get mixed.
- IX. Periodic monitoring of ground water shall be undertaken and results analysed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
- X. Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.
- XI. 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 Environmental Protection Act, 1986 Rules, 1989.

- XII. Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local P/O Agriculture Dept.
 - XIII. Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.
 - XIV. Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act XV (The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling)
 - XV. The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collection/treatment/storage/disposal of hazardous wastes.
 - XVI. Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
 - XVII. A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
 - XVIII. Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department.
 - XIX. The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <http://pauvish.com.in>
 - XX. Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
 - XXI. A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
 - XXII. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The critical pollutant levels namely: SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
 - XXIII. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
 - XXIV. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent 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 EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.
4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.

5. In case of submission of false document and non-compliance of stipulated conditions, Authority Environment Department will revoke or suspend the environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.
6. The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.
7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, amended time to time.
8. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.
9. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.
10. Any appeal against this environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D-Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.


 Ashi Dighekar
 (Member Secretary, SEIAA)

Copy to:

1. Shri Jituy Joseph, Chairman, SEIAA.
2. Secretary, MoEF & CC.
3. IA, Division MoEF & CC.
4. Member Secretary, Maharashtra Pollution Control Board, Mumbai.
5. Regional Office MoEF & CC, Nagpur.
6. District Collector, Pune.
7. Regional Officer, Maharashtra Pollution Control Board, Pune.

SIX MONTHLY COMPLIANCE REPORT

Part-I DATA SHEET

1	Project Type: River Valley/Mining/Industry/Thermal/Nuclear/Others (Specify)	Industry
2	<u>Name of the Project</u>	Bhimashankar Sahakari Sakhar Karkhana Ltd.Dattatrayanagar,Pargaon Tarfe Awasari Bk.,Tal Ambegaon Dist-Pune Pin- 412406
3	Clearance letter(S)/OM No.and Date	SIA/MH/IND2/44156/2018 Dt - 31/03/2020 E.C. received dt.23/07/2020
4	Locationa) District (s)	Pune
	b) State (s)	Maharashtra
	c) Location latitude / longitude	Latitude 18°58' 30.57"N and Longitude 74°5'31.68"E
5	Address For Correspondence	
	a) Address of the Managing Director(with Pin code/Telephone/Telcx/Fax/Numbers)	Mr. Chandrakant G. Dhage Bhimashankar Sahakari Sakhar Karkhana Ltd.Dattatrayanagar,Pargaon Tarfe Awasari Bk.,Tal Ambegaon Dist-Pune Pin- 412406 Phone No.(02133)284241/284341 Fax-(02133)284270
6	Salient Features	
	a) of the Project	This Distillery unit situated at Dattatrayanagar.
	b) of the Environmental Management Plans	Environment Management Plan Includes - Green Belt Development (Plantation with mostly indigenous plant species) Measures to avoid sound pollution Water Environment Solid waste management Rain water Harvesting Fire fighting system
7	Break up of the Project Area	
	Submergence area : Forest & Non Forest	N.A.
	Others	Plot Area-586796 m2 Total Built up area - 72844 m2 Open area- 513952 m2

8	Break up the Project affected population with the enumeration of those losing Houses/Dwelling units only, Agricultural Land & Landless Laborers /Artisans:	Project land is owned by project proponent. So no population is affected.
	a) SC,ST / Adivasi	N.A.
	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 & year of survey)	N.A.
9 (a)	Financial Details: Project cost as originally planned and subsequent revised estimates and the year of price reference	Total Project Cost- 6278.70Lakhs.
(b)	Allocation made for environmental management plans with item wise and year wise breakup	O & M cost/ Year- 64.95 Lakhs
c)	Pay back Period	8 years
d)	Whether (c) includes the cost of environmental management as shown in the above	1023.00Lakhs
e)	Actual expenditure incurred on the project so far	Project work not yet initiated.
f)	Actual expenditure incurred on the environmental management plans so far	30.00 Lakh on Environment management.
10	Forest Land Requirement:-	
a)	The Status of approval for diversion of forest land for non-forestry use.	N.A.
b)	The status of clearing felling	N.A.
c)	The Status of compensatory afforestation, if any comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far	N.A.
11	The status of clear felling in non-forest areas (such as submergence area or reservoir, approach roads) if any with quantitative information required.	N.A.
12	Status of construction (Actual & / or Planned)	Planned
a)	Date of commencement (Actual & / or Planned)	Planned in December 2022.
b)	Date of completion (Actual & / or Planned)	-
13	Reasons for the delay if the project is yet to start	Factory has received environment clearance on SIA/ MH/ IND2/ 44156/2018 dt.31/03/2020 for 45 KLPD Distillery. (E.C. received dt.23/07/2020). However, factory has not yet started its erection and commissioning work. Due to increase in cane capacity to 6000 TCD in 2020-21, molasses availability will also be increase. Therefore, considering molasses availability, management has decided to enhance distillery

		capacity 45 KLPD to 95 KLPD within factory premises. SEAC-I have sanctioned ToR and applied to MPCB, Pune for conduct public hearing for proposed expansion of distillery from 45 to 95 KLPD.
14	Dates of the site visits- The dates on which the project was monitored by the Regional Office on previous occasions, if any	NIL.
a)	Details of correspondence with project authorities for obtaining action plan/information on status of compliance to safeguards other than the routine letters for logistics support for site visit.(the monitoring report may obtain the details of all letters issued so far but the later reports may cover only the letters issued subsequently.	No show cause or notices of pollution department. We are regularly monitoring both air & water data as per CPCB guidelines & parameters are within limit.

EC Compliance Conditions

Con/No	Condition	Compliance
Specific conditions-		
I	PP undertake bottling of Carbon dioxide gas generated in the process. PP to ensure that, no carbon dioxide will be emitted to the atmosphere .	18 TPD Co2 Bottling plant will be provided for Carbon dioxide gas which is generated in the process.(Ann.1)
II	PP to provide sewage treatment plant for the treatment of domestic sewage generated within the factory and residential colony of the factory.	Sewage treatment plant of 1000 KLD capacity will be provided for the treatment of domestic sewage.(Ann.1D)
III	PP carry out physiochemical analysis of the ETP sludge and obtain approval from the Agriculture Department for its suitability to be used as manure.	We will carry out Physio chemical analysis of the CPU sludge and obtain approval from the agriculture department for its suitability to be used as manure.
IV	PP to ensure close storage of all the raw material and waste material so as to avoid odour nuisance .	<p>Anticipated odor generation sources will be molasses, fermentation unit, spent wash, ETP septic tank, Yeast storage & ETP sludge.</p> <p>Following control measures shall be implemented to avoid the odor in the atmosphere.</p> <ul style="list-style-type: none"> -Better House keeping -While process is work under closed conditions, close pipeline. -Spent wash from evaporation would be in a closed tank and directly send to the incineration in boiler. -No bio-methanation will be adopted -Fermentation unit will be provided with proper cover to avoid the spread of odor and regular steaming of all fermentation equipment's, temperature will be kept under control during fermentation to avoid inactivation/killing of yeast, staling of fermented wash would also be avoided.

V	As per point No.3x (b)of the Standard TOR, PP to submit to the SJMAA a copy of point wise compliance of the consent conditions to be obtained from the Maharashtra Pollution Control Board.	Consent Compliance report Attached (Ann.II)
VI	PP to undertake sugarcane productivity enhancement program so as to increase per hector yield of sugarcane in the factory area.	<p>Karkhana is regularly taking consultancy of Vasantdada Sugar Institute to help and provide the technical guidance to the farmers for crop development, soil health care, good irrigation practices. Till to date 47 different awareness program have been taken regarding sustainable farming, increasing productivity, good agricultural practices etc.</p> <p>Following activities was undertaken for Sugar cane productivity enhancement program so as to increase per hector yield of sugarcane in the factory area.</p> <ul style="list-style-type: none"> -Training programme, Melave and tours for farmers -Provided good quality sugarcane seed to farmers. -Provided pesticide and insecticide for seed treatment. -Subsidy for organic manure and micro nutrients. -Subsidy soil and water testing. -Provided composting to farmers in minimum prize. -Implemented scheme of Micro irrigation-subsidy and no interest. - Organized Competition – Season wise, individual And villages wise for increase per acre yield. <p>The revised CER plan will be approved by the District Collector before starting the plant.</p>
VII	PP to ensure that revised CER plan gets approved from District Collector.	
General Conditions-		
I	PP to achieve Zero Liquid Discharge PP shall ensure that there is no increase in the effluent load to CETP.	We ensure you that there will be no increase in the effluent load to CETP.

II	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.	We are agree, No additional land will be acquired /used for any activity without pollution Board permission.
III	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.	We arrange health checkup of all the employees once in every year and records is maintained as per Factory Act. Pre & post medical check-ups were organized for all employees. Employees are regularly examined and the medical records is maintained of each employee. (Photographs Attached-Ann. IV)
IV	Proper Housekeeping programmers shall be implemented.	We shall be regularly maintain the proper housekeeping.
V	In the event of the failure of any pollution control system adopted by the unit ,the unit shall be immediately put out of operation and shall not be restarted unit the desired efficiency has been achieve.	After failure of pollution control device, We shall immediately stop the Boiler operation & restart after activation of pollution controlling device. We shall intimate both CPCB & MPCB time to time by mail in this regard without any delay.
VI	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG (set).	Standard stack height shall be provided for New D.G.set.
VII	A detailed scheme for rain water harvesting shall be prepared and implemented to recharge ground water.	Rain water harvesting plan shall be prepared and implemented to recharge ground water before starting the plant.
VIII	Arrangement shall be made that effluent and storm water does not get mixed.	We shall be arrangement of proper drainage for storm water & effluent & there is no mixing of waste water & storm water in the new plant.
IX	Periodic monitoring of ground water shall be undertaken and result analyzed to ascertain any change in the quality of water. Result shall be	Monitoring Reports attached (Ann.V)

	regularly submitted to the Maharashtra Pollution Control Board.	
X	Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. Shall be provided.	We shall be provided Noise proof cabins to operators wherever is possible. Also shall be provided ear plugs for employees.
XI	The overall noise level in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencer, enclosures, etc. On all source of noise generation. The ambient noise level shall conform to the standards prescribed under Environment (protection) Act, 1986 Rules, 1989.	Noise controlling measures are as per EMP are taken including tree barriers. Monitoring Reports attached (Ann. VI).
XII	Green belt shall be developed & maintained around the plant periphery. Green belt development shall be carried out considering CPCB guideline including selection of plant species and in consultation with the local DFO/Agriculture Dept.	Species are selected as per CPCB publication, MPCB circular and in consultation with Botanical Department of local Institute. The Species selection is intimated to DFO for suggestions, if any. (Photographs Attached. Ann -VII)
XIII	Adequate safety measures shall be provided to limit the risk zone within the plant, boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.	Adequate safety measures shall be provided.
XIV	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act XV.	We arrange health checkup of all the employees once in every year and records is maintained as per Factory Act. Pre & post medical check-ups were organized for all employees. Employees are regularly examined and the medical records is maintained for each employee. The

		Factory has taken all workers the medi claim policies to take care of the health of the workers.
XV	The project authorities must strictly comply with the rules and regulations with regards to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections /treatment/storages/disposal of hazardous wastes.	We regularly follow guidelines given by MPCB
XVI	Regular mock drills for the onsite emergency management plan shall be carried out. Implementation of changes/ improvement required, if any, in the onsite management plan shall be ensured.	We arrange regularly. It is part of our routine practice (Photographs Attached. VII)
XVII	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Environment Management cell is established. It is headed by a qualified and experienced environmental officer having experience more than 10 years.
XVIII	Separate funds shall be allocated for implementation of environmental protection measures /EMP along with item wise break up. These cost shall be included as part of the project cost. The fund earmarked for the environment protection measures shall not be diverted for other purposes and year wise expenditure should reported to the MPCB & this department.	We have received the EC in July, 2020. But the factory has decided set up distillation project of 45 45 KL PD instead of 45 KL PD. So distillery unit has not been installed yet but we will take care of it after the installation. * We shall be Rs. 1023.00 Lakhs for capital investment on environment as specified in EMP.

		<p>* Management is very committed for the same. * The funds earmarked for Environment are not diverted to any other account head.</p>
XIX	<p>The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website http://parivesh.mtc.in</p>	<p>Karharna published advertise in local newspapers - 1) Business Standard (English) – 28 July 2020 2) Punyanagari (Marathi) - 27 July 2020 (Copy Attached Ann.IX)</p>
XX	<p>Project management should submit half yearly compliance report in respect of the stipulated prior environment clearance terms and condition in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.</p>	<p>Regularly Submitted. (Mail Copy Attached-Ann.X)</p>
XXI	<p>A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO if any from whom suggestion/representation if any were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.</p>	<p>Environment Clearance letter displayed on website. (Website Screen shot attached. Ann. XI)</p>
XXII	<p>The proponent shall upload the status of compliance of the stipulated EC condition, including result of monitored data on their website and shall update the</p>	<p>Submitting Regularly .</p>

	<p>same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely: SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	
XXIII	<p>The project proponent shall also submit six monthly report on the status of compliance of the stipulated EC condition including result of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.</p>	Regularly Submitting.
XXIV	<p>The environment statement for each financial year ending 31st March in Form – V as is mandated to be submitted by the project proponent 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 compliances of EC condition and shall also be sent to the respective Regional Office of MoEF by e-mail.</p>	Regularly Submitting.

Specific conditions

SPECIFIC CONDITIONS:

1. PP to undertake bottling Plant of carbon dioxide gas generated in the process & will ensure no carbon di oxide will be emitted to the atmosphere.

Compliance:

Basis of Design

Clean carbon dioxide formed during molasses fermentation in the fermenters and duly scrubbed using fresh water in CO₂ scrubber using fresh water to trap foam and recover entrained alcohol, forms the raw material for the carbon dioxide plant.

The following design basis and the equipment specifications shall be applied to the proposed CO₂ Gas Production System.

- CO₂ Production Rate - 18 TPD
- Power: 415 Volt, 3 Phase, 50 Hertz
- Control: 24 Volts DC and/or 220 Volt, Single phase, AC, 50 Hertz
- Pressure Vessel Design: ASME Code for Unfired Pressure Vessels, Section VIII, Div. I, latest revision applicable
- Elevation at Plant Site: 500 MSI.
- Electrical Design:.....National Electrical Code USA (NEC)
- Motors:.....Totally Enclosed Fan Cooled (TEFC)
- Motor Starters:.....22.4 kW (30 HP) & Over: Wye-Delta 1
- Cooling Water: closed circuit from and to cooling tower
- Supply Temperature:.....32. 2°C
- Wet Bulb:.....30 oC
- CO₂..... 97.43%
- CO₂ Available At:.....0.23 Bar g. @ Minimum Purity of 96%

CO₂ FROM ALCOHOL RECOVERY SCRUBBER IN THE FERMENTATION SECTION IS COLLECTED IN A BALLOON OF ABOUT 18 M³ CAPACITY and Low Pressure CO₂ Gas Scrubber to remove water-soluble impurities in a highly efficient operation in a structured packing tower. Desin features of the tower are division shall have

- Scrubber Fully automatic operation.

Specific conditions

- MOC is SS 304 shell, with SS internals
- STAINLESS STEEL liquid distributor.
- STAINLESS STEEL "Structured packing".
- Piping, valves, and make-up water flow indicator.
- STAINLESS STEEL demister as well as in-line moisture separator to prevent
- Water carryover to the balance of the system.

CO2 GAS BOOSTER COMPRESSOR

Capacity: 18 TPD

The booster draws feed CO₂ gas from the alcohol recovery scrubber in the fermentation section and increases its pressure to overcome recovery piping and equipment pressure losses and deliver elevated suction pressure to the main CO₂ Compressor. The booster is equipped with a Variable frequency Drive that is automatically modulated so as to maintain a constant pressure in fermenters even with changing CO₂ production rates, to facilitate remote location of the balance of the CO₂ recovery equipment and improve CO₂ Compressor performance.

CO2 GAS COMPRESSION SYSTEM

Capacity: 18 TPD

CO₂ Compressor is a compact, easily installed, durable and smooth running machine, non-lubricated (oil-free), two (2) stage, machine, specifically designed for use in CO₂ applications where the slightest petroleum lubricant cannot be tolerated. It includes: "V" section belt drive assembly, flywheel, motor pulley, matched set of "V" belts and belt guard.

- STAINLESS STEEL intercooler and combination high pressure after cooler/ pre-cooler complete with moisture separators and traps.
- Teflon piston rings and Teflon piston rod packing.
- STAINLESS STEEL cushioned valves for quiet, smooth valve action.
- Valves easily accessible for routine inspection/maintenance.
- Crankcase of high strength cast iron.

Specific conditions

- * Completely enclosed frame with oil tight/dust proof cover plates for easy access to interior.
- * 3-step capacity control via valve unloading arrangement.
- * supplied completely piped, assembled and wired.

HIGH PRESSURE CO₂ GAS SCRUBBER - STAINLESS STEEL.

Designed to perform with a high impurity removal efficiency due to use of once through potable water scrubbing. A continuously pumped feed of potable water, manually adjusted proportional to the CO₂ collection rate, is evenly distributed over the top of a stainless steel structured packed bed. The water is collected in the sump and drained to sewer through an automatic level control valve. At the top of the tower the entrained moisture is removed in the demister pad and the CO₂ exits the tower. A high pressure pump to be provided for high pressure water supply to scrubber.

CO₂ GAS PURIFIER/DEODORIZER

Capacity:.....18 TPD

The Pacific-Deodorizer is a PSA type dual tower absorber unit. The CO₂ Purifier/Deodorizer is designed to remove impurities including dimethyl sulfide, alcohols, esters and ketones not fully removed in wet scrubbing.

- * Dual tower arrangement - one tower operating while the other is regenerating.
- * Stainless Steel construction.
- * Initial charge of specially prepared activated carbon as deodorant.
- * Stainless Steel piping and valves.
- * Safety relief valves and pressure gauges.
- * Full automation to allow for auto switchover of towers and operation of hot air regeneration equipment as per preset cycle time.
- * Hot air reactivation system including air blower and heater *to allow for proper regeneration.*
- * Carbon dust filter at the exit of deodorizing tower assembly.

DUAL TOWER CO₂ GAS DEHYDRATOR

Capacity:.....18 TPD

Dual tower desiccant type dryer with internal reactivation dries the CO₂ gas, thereby eliminating the formation of frost and possible freeze-up in the CO₂ condenser and operates at about 19 ata, and comprises:

Specific conditions

- Desiccant type, dual tower, electrically reactivated CO₂ Dehydrator to give a maximum outlet dewpoint % -62.2°C.
- Towers are automatically alternated on a dewpoint demand cycle with the off-stream tower being reactivated while the on-stream tower is drying the CO₂ gas.
- Automatic cycle time of reactivating, purging, and cool down.
- Coalescing prefilter on the inlet side of the CO₂ dehydrator to ensure liquid droplet-free CO₂ gas entering the desiccant beds.
- Desiccant Dust Afterfilter on the outlet side of the CO₂ dehydrator to ensure dust-free CO₂ condenser operation.
- Automatic on-line and Manual Dewpoint Tester to be provided.

CO₂ LIQUEFYING SYSTEM WITH STRIPPER COLUMN (NH₃ refrigeration system)

Capacity:.....18 TPD

CO₂ Liquefying System comprises an ammonia-cooled, cascade type Co₂ liquifier. The following equipment is to be provided:

CO₂ CONDENSER

- Flooded ammonia-type condenser.
- Complete with ammonia accumulator mounted on top of condenser.
- Complete with dual relief assembly for NH₃ side and single relief valve for CO₂ side.

ONE AMMONIA COMPRESSOR-

- Direct driven economized single stage NH₃ screw/ reciprocating compressor.
- Suction scale trap with removable strainer.
- Fully modulated automatic capacity control.
- Oil separator receiver with integral oil heaters and access port
- Suction and discharge stop check valves.
- Elapsed time meter.
- Pressure and temperature indicators for the lube and refrigeration circuits.
- Direct drive positive displacement type oil pump with filter (replaceable media)
- Water-cooled shell and tube oil cooler with automatic lube temperature control.

ONE AMMONIA CONDENSER

- shell and tube type heat exchanger complete with NH₃ Suction accumulator.
- Complete with liquid level float control, manual by-pass and electric solenoid valve, and the required safety valves.

Specific conditions

ONE AMMONIA RECEIVER

- Complete with mounting stands, ammonia valves, sight glass, and safety valves.
- Ammonia condenser shall be mounted above the ammonia receiver on a common structural steel base.

CO₂ CONDENSER - INSULATION MATERIAL:

- Supplied loose for mounting after all equipment is installed and pressure tested.
- Puf material furnished in precut, curved section along with accessories.
- For indoor or outdoor installation.

CONTROLS

- Control panel on NH₃ compressor with NH₃ suction and discharge pressure gauges, pressure switches, and relays.
- Master CO₂ System "Y" Switch and Relays
- Safety controls for operation and equipment protection.

INTERCONNECTING PIPING

The necessary interconnecting, CO₂ gas & liquid, NH₃ refrigerant, NH₃ relief vent, cooling water (supply and return), steam, effluent (discharge) and make-up water piping between all components described above is to be furnished.

PLC BASED CONTROL SYSTEM

The PLC system shall be provided to remote control and monitoring of system operation utilizing Siemens S7 Programmable Logic Controller or equivalent. It should also have, inter-alia, following features:

Features:

- Touch screen operator interface.
- On-off equipment status.
- Temperature and pressure indication of key process variables.
- Data logging.
- Screen printout of status and alarms.
- Control of equipment via remote control panel.
- Junction boxes.

ELECTRICAL WIRING AND CONDUIT

Specific conditions

The necessary electrical wiring, conduit and wireway between components and the customer supplied motor control center will be supplied. The amount of materials included may be based on all equipment being centrally located in accordance with vendor's requirement our, and in close proximity to the customer supplied motor control center.

AUXILIARY EQUIPMENT & CHEMICALS

- * Dew point Tester for periodical check of the CO₂ Dehydrator performance.
- * CO₂ Gas Purity Tester (manual) for periodical check of CO₂ gas purity.

INITIAL OPERATION KIT

Should include first charge of

- * CO₂ compressor oil, refrigerant compressor oil, filters elements.
- * Carbon and desiccant.
- * Liquid Ammonia charge.
- * Chemicals with specifications

While our proposal includes in its price the chemicals listed above, THE ACI reserves the right to ask our valued customer to procure such chemicals from local sources of supply where available, and where quality and content meet ACFS specifications. When our valued customer procures such chemicals, THE ACI will issue a credit equal to the amount of the purchase, but not to exceed the amount included within this proposal.

FIELD ENGINEERING SERVICES

Site supervision for installation and then for equipment startup supervising the installation contractor, 'inspection of the equipment after installation', start-up of the plant, and training of operators.

1 X 60 METRIC TON LIQUID CO₂ STORAGE TANK INSTALLATION ACCESSORIES

Design Code	-	As per IS 2825 Class 1 + SMPV (U) Rules 1981 With all amendments.
Capacity(Net)	-	60 M.T.
Water Capacity(Gross)	-	50000 Ltrs
Design Pressure	-	24 kg/cm ² g

Specific conditions

Design temperature	-	(-) 45 deg c
Radiography	-	100 %
Hydro test Pressure	-	31.2 Kg/cm ² g
P.W.H.T.	-	Stress Relieving
Type of Dish end	-	Deep Torrispherical / Ellipsoidal .
Mounting	-	Horizontal vessel supported on saddles
Material of construction	-	SA-516 Gr. 70 Shell & Dish ends SA-350 LF-2 Flanges & Couplings SA-333 Gr. -6 Nozzles Necks SA-350 L7 / SA-194 Gr.4
Connections	-	Liquid inlet, outlet, vapor balance, manway, Pressure gauge, safety valve, full try cock, liquid Level, thermo well, vapourizer, cylinder filling Pump, gas outlet etc.

INSULATION - **Polyurethane Foam**

Rigid PUF - Insitu cast insulation of 200 mm thk Minimum with 20G. Bright aluminium sheet Cladding to cover insulation using self tapping Screws. The insulation to be injection moulding i.e. Polyurethane chemicals poured with high pressure insitu foaming machine and pouring gun.

Cost : 225 Lakhs

Specific conditions

2. PP to provide sewage treatment plant for the treatment of domestic sewage factory and residential colony of the factory.

Reply; Sewage Treatment Plant of 100 KLD Capacity will be provided for the treatment of domestic sewage.

Design Basis

Sewage Treatment Plant:

- a) Plant Capacity : 100 m³ /day.
- b) Operation Time : 20 hrs.
- c) Hourly Flow (Feed to STP) : 6 m³ /hr.
- d) Peak Factor (for Equalisation Tank) : 3.0
- e) Source of Sewage : Sewage generated from factory.
- f) Mode of operation : Manual/ Semi-automatic.
- g) Scheme of treatment : MBBR/ FAB process.

Characteristics of Raw & Treated Sewage (After Tertiary Treatment)

Sr. No.	Parameters	Unit	Inlet	Outlet
1	Ph	-	6.5 - 8.5	<u>6.5 - 8.5</u>
2	Biochemical Oxygen Demand (BOD)	mg/l	300	<u>≤ 10</u>
3	Chemical Oxygen Demand (COD)	mg/l	400	<u>≤ 30</u>
4	Total Suspended Solids (TSS)	mg/l	250	<u>≤ 100</u>
5	Oil & Grease	mg/l	15	<u>≤ 5</u>
6	Fecal Coliform	Nos./100 ml	106/100	<u>5/100</u>
7	Total Coliform	Nos./100 ml	107/100	<u>5/100</u>

Assumptions: The plant is designed as per characterization of wastewater given by client & any variations in such will affect the performance of plant. It is assumed that there are no toxins present in wastewater which will affect the biomass in biological treatment.

Scheme of treatment

Specific conditions

The sewage treatment plant will be designed for a capacity of 100 KLD. Sewage Treatment plant scheme will be based on MBBR process.

• Pre-treatment:

Pre-treatment will consist of Screening, Oil & Grease removal & flow equalization.

• Secondary / Biological Treatment:

Secondary Treatment process will consist of Biological Aeration and Biological clarification.

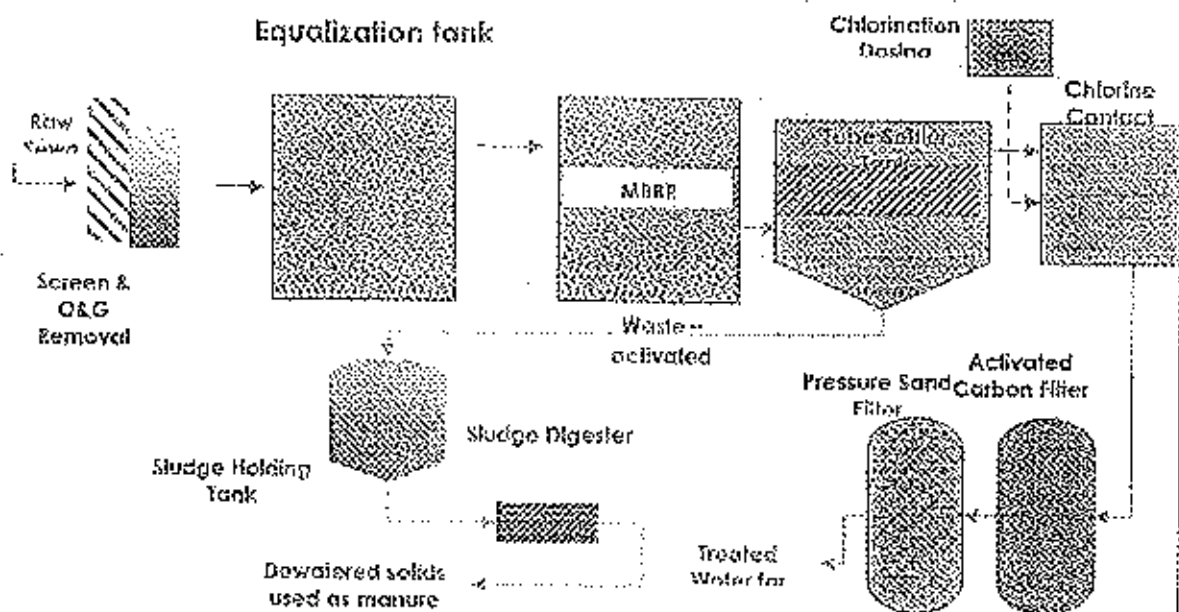
• Tertiary Treatment:

Tertiary treatment process will consist of media (Sand & Carbon) filtration & disinfection.

• Sludge Treatment:

Sludge treatment process will consist of Sludge Holding tank or Sludge drying beds.

Process Flow Diagram STP (MBBR Process):



Process Description Sewage Treatment Plant

The sewage treatment plant will be designed for a capacity of 100 KLD with a peak factor of 3. The scheme of treatment plant will be based on MBBR process. It will be smell free & underground (Using Biotechnology). Raw sewage will then be passed through fine manual bar screens Oil & Grease to remove solids, floatables, oil & grease from raw sewage stream before passing to equalization tank. The sewage then will be collected in receiving /collection /Equalization Tank. The receiving /collection /Equalization Tank will be provided with Air

Specific conditions

Slowers for mixing and aseptic conditions. Raw sewage from equalization tank will be lifted by using Submersible Raw Sewage Lifting Pumps. Aeration tank is provided with diffused Aeration Systems for biological aeration purpose.

In the aeration tank oxidation biological matter occurs. The aerobic bacteria present in activated sludge help in digestion of organic matter degradation BOD. Aerobically digested sewage water is then passed to secondary clarifier where it biological Flocs formed will be removed and separated by means of gravity. Very good quality of Bioculture is developed by using *Biotechnology* on MBBR/FAB media. The excess biosludge is sent sludge holding tank where it is aerated. Clarified water is then passed through multimedia and activated carbon filters for removing turbidity by means of Submersible Filter Feed Pumps. Multimedia filtration removes fine particulate and suspended solids while activated carbon filter removes odour and organic traces. Chlorination is used for disinfection of treated water.

Sewage Treatment Plant

Electro-Mechanical Equipments:

Sr. No.	Description	Quantity
1.	Manual Bar Screen	1 no.
2.	Raw Sewage Lifting Pumps	2 nos. (1W+1S)
3.	Air blowers for Aeration Tank	2 nos. (1W+1S)
4.	Diffusers for aeration tank	10 Nos.
5.	MBBR Media	5 m ³
6.	Secondary Clarifier Tube Settling Media	2.75 m ³
7.	Biosludge Withdrawal Pumps	2 nos. (1W+1S)
8.	Chlorination Dosing System	1 no.
9.	Filter Feed Pumps	2 nos. (1W+1S)
10.	Multimedia Filter	1 no.
11.	Activated Carbon Filter	1 no.

Instrumentation and Controls:

Sr. No.	Description	Quantity
1.	Raw Sewage Lifting Pumps Pressure Gauges Low Level Switch	2 nos. 1 no.
2.	Biosludge Withdrawal Pumps Pressure Gauges	2 nos.
3.	Filter Feed Pumps Pressure Gauges Low & High Level Switch (one each)	2 nos. 1 no.
4.	Multimedia Filter Pressure Gauges	2 nos.
5.	Activated Carbon Filter Pressure Gauges	2 nos.

Specific conditions

Technical Specification of Electro- Mechanical Equipments

Manual Bar Screen:

One manual bar screens will be provided one before equalization tank in order to remove solids and floatables from raw influent. The screenings which collected and should be sent for safe disposal. The fine screens will be installed in screen chamber. Screen will be manually raked type provided with comb type raking device.

Sr.	Description	Unit	Specification
1	Quantity	Nos.	2
2	Bar Spacing	Mm	6 and 10
3	Type	-	Manual Racked
4	Angle	Degree	45
5	Material Of Construction	-	MS-Epoxy Coated

Equalization /Collection Tank:

The equalization tank is to equalize and buffer daily flow of raw Sewage. Equalization not only buffers flow but also equalizes raw sewage parameters like BOD, COD etc. equalization tank will be provided with air purging grid for mixing purpose. Aeration in equalization will enhance process biology, control odours and maintain aseptic conditions in equalization tank. The equalization /collection will be provided low level switches for run dry protection of raw Sewage lifting pumps.

Raw sewage lifting pumps:

The raw Sewage lifting pumps will be used to lift raw Sewage from equalization tank it to aeration tank passing through screen chamber. Two Sewage pumps will be installed (1working + 1 Standby) with a capacity of 5 m³/hr and head of 20 meters (approx).

Sr.	Description	Unit	Specification
1	Quantity (Working +	Nos.	2
2	Capacity	m ³ /hr	5
3	Head	M	20
4	Type	-	Horizontal centrifugal
5	No. of stages	Nos.	1
6	Pump speed	Rpm	2900
7	Suction Discharge	Mm	50 X50
8	Pump efficiency	%	30
9	Power	kW/HP	0.75/1
10	Pump make	-	CNP/Kirloskar/Equiv.

Air blowers for Aeration tank:

Biological aeration process occurs in aeration tank. The aeration tank is provided with Air Blowers for providing air required for aeration purpose. During

Specific conditions

aeration aerobic bacteria present in MLSS (Mixed Liquor Suspended Solids) digest organic matter (BOD). Bacteria oxidize the organic matter and convert all the matter to CO₂, N₂ Gas and Water. The bacteria are very important for biological oxidation process. The MBBR (Moving Bed Bio Reactor) media will be used for the attachment of bacteria colony. Aerobic bacteria will grow on the MBBR media. MBBR media submerged in aeration tank provides maximum surface for attachment of bacteria.

	Description	Unit	Specification
1	Quantity (Working +	Nos.	2
2	Type	---	Twin Lobe
3	Capacity	m ³ /hr	100
4	OTR	kg- O ₂ /hr	2.2-3.2
5	Power	kW/ HP	3/5
6	Motor Speed	Rpm	2900
7	MOC	"	CI/MS
8	Make	"	Everest/Equiv.

Air Diffusers for Aeration Tanks:

Sr.	Description	Unit	Specification
1	Quantity	Nos.	10
2	Type	-	Fine bubble
3	Material Of Construction	-	EPDM
4	Make (Imported)	-	OTT/Rehau/Equiv.

MBBR/ FAB Media:

Sr.	Description	Unit	Specification
1	Media Volume	m ³	5
2	Media type	-	MBBR/ FAB media
3	Application	-	Bacteria attachment
4	Effective specific surface	m ² /m ³	400
5	Voidage	%	98
6	Media Height	Mm	16
7	Media Diameter	Mm	22
8	Structure	-	Cylindrical with external fins
9	Material Of Construction	"	Stabilized PVC
10	Specific gravity	Gms/cm ³	0.90-0.95
11	Density	Gm/cc	0.93
12	Make	"	PP Aqua/Cooldeck/Eql.

Secondary Clarifier Tube Settling Media:

The aerated Sewage is then passed to secondary clarifier where separation of bioflocs occurs. Secondary clarifier is used for solids-liquid

Specific conditions

separation purpose. The solid-liquid separation occurs by means of gravity. The secondary clarifier is provided with tube settling media with an inclination of 60° which enhances solid-liquid separation process.

Sr.	Description	Unit	Specification
1	Media volume	m ³	2.75
2	Filtering Media	-	Hexagonal Chevron
3	Application	-	Solids Separation
4	Material Of Construction	-	Stabilized PVC
5	Void ratio	%	97
6	Thickness	Mm	0.3-0.7
7	Standard dimensions	Mm	1000 X 600
8	Maximum width of support	Mm	150
9	Dry Weight	Kg/ m ³	30
10	Quantity of fills	M ³	2.75
11	Material Of Construction	-	Stabilized PVC
12	Make	-	PP Aqua/Cooldeck/Equi.

Sludge withdrawal pumps:

Settled sludge from secondary sludge is pumped to sludge handling system. Two submersible pumps will be installed with a capacity of 2.0 m³/hr and head of 10 meters (approx).

Sr.	Description	Unit	Specification
1	Quantity (Working +)	Nos.	2
2	Capacity	m ³ /hr	2
3	Head	M	10
4	Type	-	Horizontal centrifugal
5	No. of stages	Nos.	1
6	Pump speed	Rpm	2900
7	Suction Discharge	Mm	50 X50
8	Pump efficiency	%	65
9	Power	kW/HP	0.75/1
10	Pump make	-	CNP/Kirloskar/Equiv.
11	MOC	-	CI/ Bronze

Intermediate Water Tank 1no:

Clarified water from secondary clarifier tank will be collected in intermediate water tank. The intermediate water tank will be provided with low & high level switches for dry run and over flow protection. The water from clarified water tank will be pumped to media (sand & carbon) filtration system.

Specific conditions

Filter feed pumps:

Filter feed pumps will be used to feed chlorinated water to media & carbon filtration system. Two horizontal centrifugal pumps will be installed (1 working + 1 Standby) with a capacity of 5.0 m³/hr and head of 30 meters (approx).

Sr.	Description	Unit	Specification
1	Quantity (Working +	Nos.	2
2	Capacity	m ³ /hr	6
3	Head	M	35
4	Type	-	Horizontal centrifugal
5	No. of stages	Nos.	1
6	Pump speed	Rpm	2900
7	Suction Discharge	Mm	50 X 40
8	Pump efficiency	%	65
9	Power	HP	1.5/2
10	Pump make	-	CNP/Kirloskar/Equiv.
11	MOC	-	CI/ Bronze

Pressure Sand Filter:

The unit consists of MS/FRP pressure vessel. Selected Anthracites and grades of fine sand and coarse sand are mixed together in fixed proportion to give varying void age across media. It is supported by gravels & pebbles. This allows the filter to work using surface filtration and depth filtration thus allowing higher dirt holding capacity. The particle removal efficiency is better than conventional filters, ensuring consistently low treated water turbidity at all times. Due to higher design filtration rate, the filter is more compact in size. It is externally fitted with necessary MS/FRP pipe work, valves, pressure gauges, sampling points at the inlet and outlet. Raw water flows downwards through filter bed and suspended matter is retained on the sand surface and between sand grains immediately below the surface. The filtered water is evenly collected by strainer on plate type bottom collecting system. The inlet water distributor consists of a header strainer system.

Backwash: Water is passed upwards through the column from bottom to top and then discharged to the drain for 10 minutes or till the Sewage is clear, at required flow rate. This results in removal of free impurities from the sand bed.

Rinse: Water is passed downwards through the column. The water flows out through bottom collector and flows to drain. Rinsing helps in setting up media in uniform fashion. Rinsing should be done for at least for 5 minutes.

Sr.	Description	Unit	Specification
1	Quantity	Nos.	1
2	Capacity (Normal-Maximum)	m ³ /hr	5

Specific conditions

3	Type		Down flow
4	Operating pressure	Kg/cm ²	2.5
5	Testing pressure	Kg/cm ²	3.5
6	Backwash flow rate	M ³ /hr	7.5
7	Backwash duration	Min	10-15
8	Shell diameter x HOS	Mm	600 x 1800
9	Filter media depth	Mm	1400
10	Thickness Shell and Dish	Mm	5&6
11	Media type	-	Multigrade sand
12	Vessel Material	-	MSEP/FRP
13	Frontal pipe size	Nb	40
14	MOC of pipe work	-	uPVC
15	Valve type	-	MPV/ Butterfly valve
16	Painting	-	Internal Black bituminous External Red oxide
17	Make	-	SHREE ENVIRO TECH

Activated Carbon Filter:

The unit consists of MS/FRP pressure vessel, Selected Activated carbon. It is supported by gravels & pebbles. This allows the filter to work using surface filtration and depth filtration thus allowing higher dirt holding capacity. The particle removal efficiency is better than conventional filters, ensuring consistently low treated water turbidity at all times. Due to higher design filtration rate, the filter is more compact in size. It is externally fitted with necessary MS/FRP pipe work, valves, pressure gauges, sampling points at the inlet and outlet. Raw water flows downwards through filter bed and suspended matter is retained on the Carbon surface and between sand grains immediately below the surface. The filtered water is evenly collected by strainer on plate type bottom collecting system. The inlet water distributor consists of a header strainer system.

Backwash: Water is passed upwards through the column from bottom to top and then discharged to the drain for 10 minutes or till the Sewage is clear, at required flow rate. This results in removal of free impurities from the Carbon bed.

Rinse: Water is passed downwards through the column. The water flows out through bottom collector and flows to drain. Rinsing helps in setting up media in uniform fashion. Rinsing should be done for at least for 5 minutes.

Sr.	Description	Unit	Specification
1	Quantity	Nos.	1
2	Capacity (Normal-Maximum)	m ³ /hr	5
3	Type		Down flow
4	Operating pressure	Kg/cm ²	2.5
5	Testing pressure	Kg/cm ²	3.5

Specific conditions:

6	Backwash flow rate	M ³ / hr	7.5
7	Backwash duration	Min	10-15
8	Shell diameter x HGS	Mm	600 x 1800
9	Filter media depth	Mm	1400
10	Thickness Shell and Dish	Mm	5&6
11	Media type	-	Carbon and Multigrade sand
12	Vessel Material	-	MSEP/FRP
13	Frontal pipe size	Nb	40
14	MOC of pipe work	-	Upvc
15	Valve type	-	MPV/ Butterfly valve
16	Painting	-	Internal Black bituminous External Red oxide

Treated Water Tank

The disinfected water will be stored in treated water. The treated water can be used for gardening, flushing, and as per requirement of client.

Details of Civil Equipment's

	Description	Unit	Specification
1	Screen Chamber		
	Quantity	No.	1
	Wet volume	m ³	0.125
	Length	m	1
	Width	m	0.5
	Side water depth (SWD)	m	0.25
	Free board	m	0.25
	Shape	-	Rectangular
	MOC	-	MS
2	Oil and Grease removal chamber		
	Quantity	No.	1
	Wet volume	m ³	0.95
	Length	m	1.25
	Width	m	0.75
	Side water depth (SWD)	m	1.0
	Free board	m	0.25
	Shape	-	Rectangular
	MOC	-	MS
3	Equalization / Collection tank		
	Quantity	No.	3
	Wet volume	m ³	30
	HRT	Hrs.	6.3
	Free board	M	0.5
	Shape	-	Round
	MOC	-	RCC
4	Aeration tank (MBBR/ FAB		

Specific conditions

	Quantity	No.	1
	Wet volume	m ³	30
	HRT	Hrs.	9.25
	Length	M	3.0
	Width	M	3.0
	Side water depth (SWD)	M	4.0
	Free board	M	0.5
	Shape	-	Rectangular
	MOC	-	MS
5	Secondary tube settling tank		
	Quantity	No.	1
	Wet volume	m ³	12.5
	HRT	Hrs.	2.7
	Length	M	2.0
	Width	M	2.5
	Side water depth (SWD)	M	3.0
	Free board	M	0.5
	Shape	-	Rectangular
	MOC	-	MS
6	Intermediate tank		
	Quantity	No.	1
	Wet volume	m ³	10
	HRT	Hrs.	1
	Length	M	2.0
	Width	M	2.5
	Side water depth (SWD)	M	3.0
	Free board	M	0.5
	Shape	-	Rectangular
	MOC	-	MS
7	Treated water tank		
	Quantity	No.	1
	Wet volume	m ³	10
	HRT	Hrs.	3.3
	Free board	M	0.5
	Shape	-	Round
	MOC	-	RCC
8	Paddle pipes,		
	Quantity	Nos.	As required
9	Foundations for equipments		
	Quantity	Nos.	As required

Specific conditions

Piping Specifications:

Sr.	Description (Fluid)	Material of Construction
1	Interconnecting pipes for STP	uPVC
2	Filter feed and Biosludge	uPVC
3	Interconnecting piping	uPVC

Note: All extra required piping for backwash, regeneration, sampling, cleaning, service water, dilution, instrumentation air, drain, vent, and overflow piping up to trench will provide by you.

MCC Panel and Cabling:

Sr.	Description of	Nos.	Specification
1	Panel	-	Indoor sheet steel clad, cubicle type, dust and vermin proof, motor control venture, conforming to IS: 8623:1977, together with suitable controls and thermal protection relays, switch gears to operate all the above equipments.
2	Make of Switch	-	Siemens / L & T
3	Cabling	-	Electrical cabling shall be provided from control panel to various units of Sewage treatment plant. Copper/Al unarmored.
4	Make of Cables	-	CCI/ Finofex / Polycab /Equiv.

Schedule of Exclusions:

Our supplies will be restricted to the items included in the above details. For your ready reference a list of exclusions from our supply is given below: -

- a) All type of piping and valves up to inlet and beyond outlet of the STP.
- b) All types of civil works, structural works including staircase, platform and railings etc.
- c) Supply of power to MCC Panel at STP with cabling & earthing, Area lighting and cable trays.
- d) All regenerate chemicals required for the normal operation of the plant.
- e) Approval from Government Statutory.
- f) Tools, tackles, man power, storage facility for the safety of the equipment and other utilities during erection and commissioning.
- g) All supplies, working and services not specifically mentioned as forming part of our offer.

Specific conditions

It) Fresh water supply line to the STP site.

Battery Limits:

Our Battery Limit extends up to -

- Treated water - At outlet of Carbon Media Filter.
- Electrical - At terminal of MCC panel.

Operational Cost:

A. Electrical Cost:					
Sr. No.	Item	Connected Load In kW	Working Load in kW	Operation Hr.	Working Load in kW/Day
1	Raw sewage lifting pump	1.5	0.75	20	15
2	Air blower for aeration, Equalization, Sludge holding tank	4.5	2.25	20	45
3	Filter feed pump	3	1.5	20	30
4	Biosludge withdrawal pump	1.5	0.75	4	3.0
5	Chlorine dosing	0.05	0.05	20	1
Total					94.00
Total Working Electrical Load kW/Day					94.00
Total Power Cost per day @ Rs. 7.5 per Unit					Rs. 705.00
Total Power Cost per m3 of Sewage					Rs 7.05
B. Chemical Cost:					
Sr. No.	Chemical	Rate	Dosage	Daily consumption	Total (Rs)
1	Sodium Hypochlorite	30/- / Litre	4 ppm	3.33	100.00
Total cost of chemical per day					100.00
Total Cost of NaOCL per m3 of Sewage					Rs 1.00

C. Total Operating cost:

A	Electrical cost	m3	7.05
B	Chemical Cost	m3	1.00
Total cost			8.05

Area requirement : 70 m²

Total wet volume : 117 m³

ESTIMATED COST FOR 100 KLPD STP PLANT-45 LAKHS (Including Machinery and Civil cost)

MAHARASHTRA POLLUTION CONTROL BOARD
SUB REGIONAL OFFICE - PUNE II

Phone no.(020) 25814028



2nd floor, Jog centre,
Mumbai - Pune Rd
Wakdevadi, PUNE - 411 008

No. MPO/SERP/II/ 200306-FTS-0237 Date: 6/3/2020

To: M/s. Bhimshankar SSK LM
A/P: Dahanaynagar, Fargson,
Tal: Ambegaon, Dist: Pune.

- Subj: Granting letter of pollwise compliance report of consent conditions.
- 1) Consent granted for sugar and co-gen is valid upto 31.7.2020.
 - 2) Your request letter dated 6.3.2020.

With reference to above subject, this office has received your request letter to submit the compliance report. Please find attached herewith compliance report of M/s. Bhimshankar SSK Ltd, A/P: Dahanaynagar, Fargson, Tal: Ambegaon, Dist: Pune.

This is submitted as per your request letter dated 6.3.2020 to submit it for obtaining Environmental Clearance and further information please.

Amitabh Chaudhary
(Joint Secy)
6/3/2020
Sub Regional Office, Pune-2

Copy submitted for information to:
The Regional Officer MPOC, Pune

Existing Consent Compliance
Compliance for Water Pollution Control

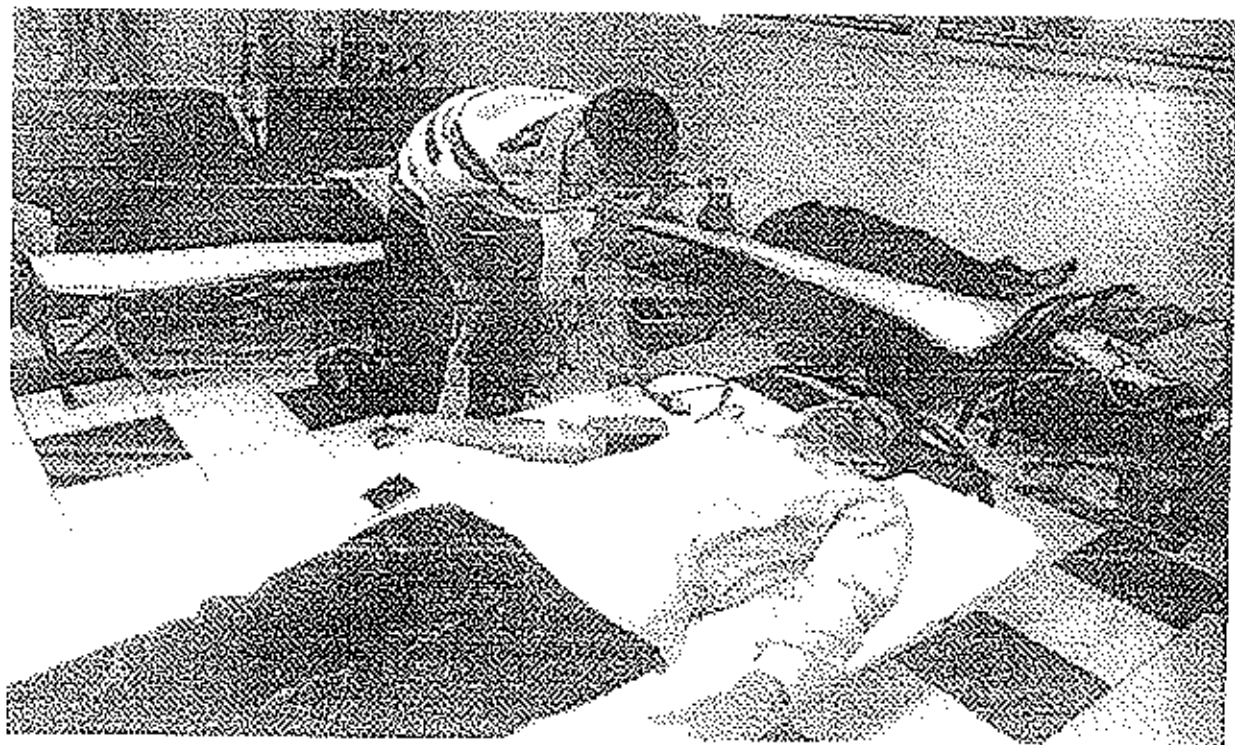
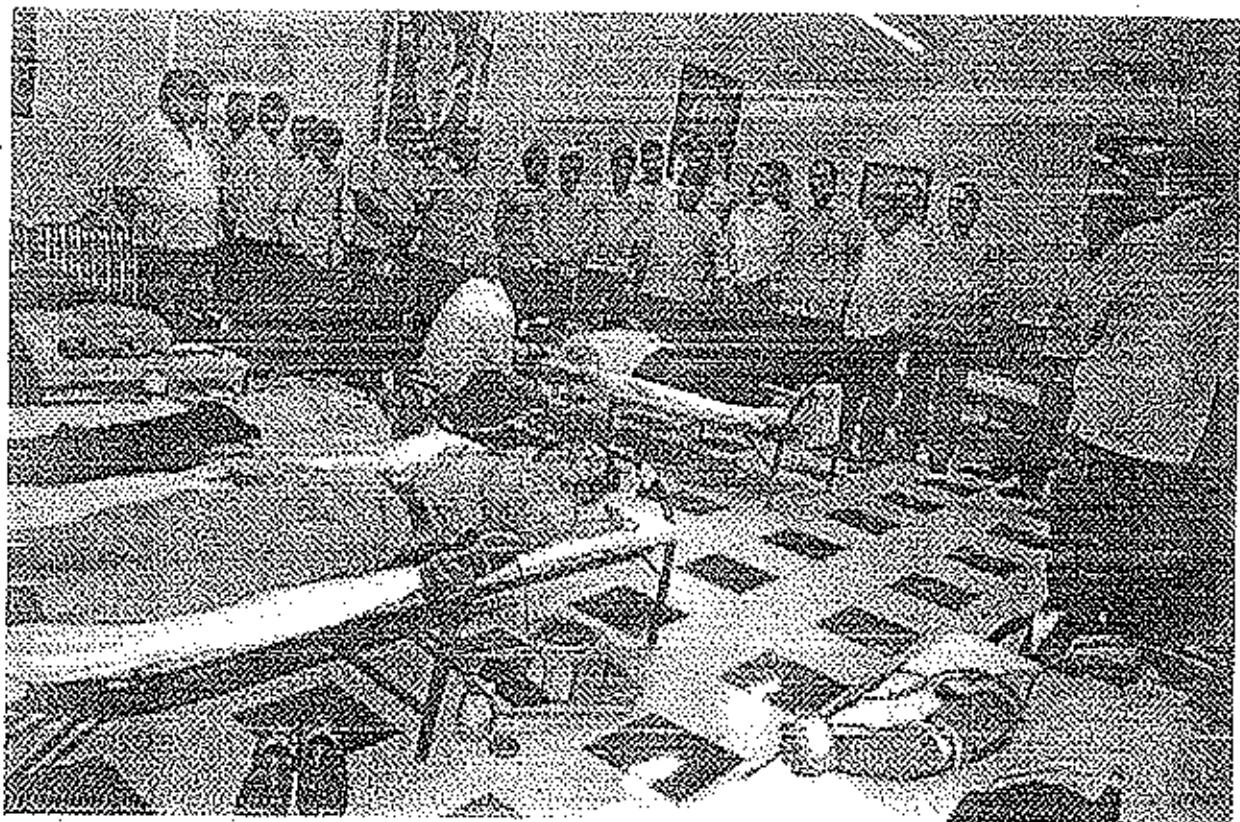
S/N	Conditions	Compliance
1)	As per your application, you have provided sufficient flow treatment plant with capacity of 250 CMD, comprising of Raw Clarifier, Oil & Grease Trap, Secondary clarifier, Aeration tank, Secondary Clarifier & SDR.	Yes, we have provided 1500 sq. capacity STP plant, Details of Photographs Attached-B.
2)	The Applicant shall operate the Effluent treatment plant (ETP) to meet the state effluent as to achieve the prescribed standards by the Board or under EP Act 1986 and Rules made there under from to & any whichever is stringent.	We operate ETP properly & treated water from this area within prescribed limits.
3)	The treated effluent (TCE) shall be disposed on land in the manner as per the direction of river bank, for paddy the distance is 50m from the river bank. In no way case treated effluent shall be disposed in any other manner directly or indirectly.	The treated water is used for irrigation, for the same we have made mutual agreement with farmers for 5 years (Agreement Copy Attached-A, B).
4)	The treated effluent 50 CMD of Coopers shall be 100% recycled.	All the TCE effluent is recirculated from the plant & recycled.
5)	ETP operations for Sugar Industry: 1) Operation of ETP shall be treated as per the standard before start up of each year. The effluent shall be treated as per the prescribed provision of law & any other operation of law. 2) Waste water generation shall be reduced to 100% below per rate of being treated. 3) Industry shall discharge zero discharge into the land under water bodies. 4) IS gate storage capacity tank shall be provided for treated effluent to take rain water demand for irrigation.	One month before commencement of the season we designed 50000 CMD. As per ETP plant in operation to achieve reduced treatment of treated water. Waste water generation is reduced to 88% for the year of 2022. The effluent is discharged into the river surface water or treated and ground water. Adequate storage tanks tank is provided. Photographs Attached-B.

6)	Industry shall maintain arrangement provided for covering of effluent collection pond and to avoid the leakage of leakage or other material.	Regular handling system is fully closed to prevent the leakage of effluent. Effluent line is also closed (PVC pipe). There is open ground for effluent collection.
7)	The tank shall operate ETP even after completion of the existing season so as to treat effluent generated during winding up, maintenance & discharged after proper treatment.	If at least there is no effluent.
8)	The user shall optimize water use in industrial process & results in reduction of water consumption & waste water generation.	Excess condensate is reduced after cooling & minimized the raw water requirement to the level 15 M3/T. Also, we have provided flow meter for each of the water intake & effluent outlet. Maintained records for the same.
9)	As per your consent application, 50 CMD SDCMD sewage generation you have provided septa tank & soak pit.	Necessary provision is made.
10)	The applicant shall operate the sewage treatment system so as to reduce the following standards: 1) Suspended Solids: Max. to be 100 mg/l 2) BOD 5 days 20°C: Max. to be 20 mg/l	Sewage treated water BOD & S.S. level is within limit.
11)	The treated sewage of CDD shall be disposed on land for gardening, irrigation.	Used for garden & trees planted in factory premises.
12)	The consents shall have closed arrangement with the factory as where used the closed effluent is used for irrigation purpose and is kept in the agreement with liability shall be submitted to the Regional/ sub-regional Officer of the Board.	Yes, Mutual agreement is made for 5 years. (Agreement Copy Attached-A, B).

26	The industry shall submit quarterly statement in respect of fluctuations of operation towards consent and pollution control compliance & duty supported with documentary evidences (format can be downloaded from MPPCB official site).	Regularly Submitted
27	The industry shall submit official e-mail address and any change will be duly informed to MPPCB.	No change.
28	The industry shall adhere the National Ambient Air Quality standards prescribed vide Government of India, Notification Dt. 16.11.2009 as amended.	
29	The board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waste waters for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent/consent of the board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.	We agree with the same.
30	The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.	Regularly maintenance.

The Pollution Control System provided seems to be adequate if operated & maintained properly.

Ajit Kumar Shrivastava
 Chief Engineer





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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatrayanagar, Pargaon Village-Awasari, Ek. Tal.- Arambegam, Dist. - Pune-412406		Report No	AI/TR/38-238/2020-21
Sample Detail		Report Date	16/12/2020
Well water-Dayaneshwar Double Borne		Inward No	12-15
Sample Collected By	Party	Inward Date	28/11/2020
Sample Volume	2250 ml	Analysis Start date	03/12/2020
		Analysis End date	08/12/2020
		Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.04	≤1.0	IS3025(Part-10)
4.	Conductivity	µmhos/cm	2941	Not Specified	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	--	7.88	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1522	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO ₃	mg/lit	732	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	199	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	56.2	≤30.0	APHA 23rd Edition 2017 3500- Mg B Calculation method
10.	Chlorides as Cl	mg/lit	94.3	≤250	IS3025(Part-32) RA 2009 Argentometric Method
11.	Sulphate as SO ₄ ²⁻	mg/lit	5.77	≤200	APHA-23rd Edition 2017-B-SO ₄ ²⁻
12.	Total Alkalinity as CaCO ₃	mg/lit	359	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO ₃	mg/lit	3.80	≤45.0	APHA 23rd Edition 20174500-B- NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E-Coli	CFU/ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- As per Specified above analysis water sample is not within the desirable limits.
- Sample will be preserve for seven days after analysis.
- Above analysis results are related to its testing.
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- BDL- Below Detectable Limit

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(Analyst)

Authorized Signatory

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Page 1 of 1

NAME OF COMPANY & ADDRESS:

M/s. Bhima Shankar Sahakar Sakhar Karkhana Ltd.
Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. -
Pune-412406

Report No AL/TR/38-239/2020-21
Report Date 10/12/2020
Inward No 12-16

Sample Detail Well water-Nivurti Dhole
Sample Collected By Parly
Sample Volume 2750 ml

Inward Date 28/11/2020
Analysis Start date 03/12/2020
Analysis End date 08/12/2020
Sample Condition Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.01	<1.0	IS3025(Part-16)
4.	Conductivity	µMhos/cm	1739	Not Specified	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.21	6.5 to 8.5	IS 3025 (Part 11) RA 2012
6.	Total Dissolved Solids	mg/lit	895	<500	Electrometric Method IS 3025 (Part 16) RA 2012
7.	Total Hardness as CaCO ₃	mg/lit	148	≤200	Gravimetric method IS3025(Part-21) RA 2014
8.	Calcium as Ca	mg/lit	124	≤75.0	EDTA Titrimetric method
9.	Magnesium as Mg	mg/lit	32.8	≤30.0	IS3025(Part-40) RA 2009 EDTA Method
10.	Chlorides as Cl	mg/lit	64.5	≤250	APHA 23rd Edition 2017 3500-Mg B Calculation method IS3025(Part-32) RA 2009
11.	Sulphate as SO ₄ ²⁻	mg/lit	5.25	≤200	Argentometric Method
12.	Total Alkalinity as CaCO ₃	mg/lit	31.6	≤200	APHA-23rd Edition 2017 1-SO ₄ ²⁻ IS3025(Part-23)RA 2009
13.	Nitrate as NO ₃	mg/lit	3.42	≤45.0	APHA 23rd Edition 2017 4500-N-NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff 2014
16.	Fecal Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff 2014
17.	E-Coli	CFU/ml	Present	Absent	IS1622:1981 Reaff 2014

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Aishwarya
Verified by
(Analyst)

[Signature]
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TEST REPORT

NAME OF COMPANY & ADDRESS: M/s. Dhona Shankar Sahakari Sakhar Karkhana Ltd. Bhatatesynagar, Paripon Village Awasari Bk. Tal- Ambeganga, Dist. - Pune-412406		Report No AL/TR/38-236/2020-21	Page 1 of 1
Sample Detail Sample Collected By Sample Volume		Report Date Inward No Inward Date Analysis Start date Analysis End date Sample Condition	10/12/2020 13-13 28/11/2020 03/12/2020 08/12/2020 Fit For Analysis
Well water Yogesh Pingate Home Party			
2250 ml			

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤500	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.02	≤1.0	IS3025(Part-10)
4.	Conductivity	µmhos/cm	2957	Not Specified	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.30	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1520	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO ₃	mg/lit	546	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	195	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	14.1	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
10.	Chlorides as Cl	mg/lit	119	≤250	IS3025(Part-32) RA 2009 Argentometric Method
11.	Sulphate as SO ₄ ²⁻	mg/lit	5.77	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
12.	Total Alkalinity as CaCO ₃	mg/lit	490	≤200	IS3025(Part-23) RA 2009
13.	Nitrate as NO ₃	mg/lit	3.56	≤45.0	APHA 23 rd Edition 20174500-B- NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff 2014
16.	Fecal Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff 2014
17.	E. Coli	CFU/ml	Present	Absent	IS1622:1981 Reaff 2014

REMARK-

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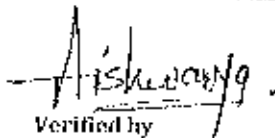
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TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar sakarkari sakhar karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Ek. Tal- Ambegaon, Dist. Pune-412406		Report No AL/TR/38-237/2020-21
		Report Date 10/12/2020
		Inward No 12-14
		Inward Date 28/11/2020
Sample Detail	Borewell Water-Saimgave Phata Hotel	Analysis Start date 03/12/2020
Sample Collected By	Party	Analysis End date 08/12/2020
Sample Volume	2250 ml	Sample Condition Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.04	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	2977	Not Specified	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.19	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1519	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO ₃	mg/lit	595	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	175	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	37.5	≤30.0	APHA 23rd Edition 2017 3500- Mg B Calculation method
10.	Chlorides as Cl	mg/lit	119	≤250	IS3025(Part-32) RA 2009 Argentometric Method
11.	Sulphate as SO ₄ ²⁻	mg/lit	4.73	≤200	APHA-23rd Edition 2017 B-304 ²
12.	Total Alkalinity as CaCO ₃	mg/lit	370	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO ₃	mg/lit	3.33	≤45.0	APHA 23rd Edition 2017 4500 B- NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN index/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN index/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E-Coli	CFU/ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK:-

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(Analyst)


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NAME OF COMPANY & ADDRESS: M/s. Blinna Shankar Sahakar Sakhar Karkhana Ltd. Dattatraynagar, Pargan Village-Awasari, Bk. Tal - Ambegaon, Dist. - Pune 412406		Report No AL/TR/38-658/2020-21
Sample Detail Well water-South east blinna Shankar hotel		Report Date 09/01/2021
Sample Collected By Party		Inward No 12-451
Sample Volume 2250 ml		Inward Date 30/12/2020
		Analysis Start date 01/01/2021
		Analysis End date 05/01/2021
		Sample Condition Fit for Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.10	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	450	Not Specified	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C		7.42	6.5 to 8.5	IS 3025 (Part 11) IA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1893	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO ₃	mg/lit	912	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	257	<75.0	IS3025(Part-10) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	64.5	<30.0	APHA 23rd Edition 2017 3530 Mg & Calculation method
10.	Chlorides as Cl	mg/lit	228	≤250	IS3025(Part-32) RA 2009 Argentometric Method
11.	Sulphate as SO ₄ ²⁻	mg/lit	797	<200	APHA 23rd Edition 2017-B-504 IS3025(Part-23)RA 2009
12.	Total Alkalinity as CaCO ₃	mg/lit	321	<200	
13.	Nitrate as NO ₃	mg/lit	3.52	≤45.0	APHA 23rd Edition 20174-500-B NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E-Coli	CFU/ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

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- ❖ RDL- Below Detectable Limit

Verified by
(Analyst)

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NAME OF COMPANY & ADDRESS:

M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.
Dallatraynagar, Pargaon Village-Awasari' Bk. Tal.- Ambegaon, Dist. -
Pune-412406

Report No AI/TR/38-660/2020-21
Report Date 08/01/2021
Inward No 12-453
Inward Date 30/12/2020
Analysis Start date 01/01/2021
Analysis End date 05/01/2021
Sample Condition Fit for Analysis

Sample Detail Well water- South West Ramakant
Jadhav
Sample Collected By Parry
Sample Volume 2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.90	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	5371	Not Specified	IS 3025 (Part 14)-2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	--	7.32	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1832	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO ₃	mg/lit	902	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	257	≤75.0	IS3025(Part 40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	62.2	≤30.0	APHA 23rd Edition 2017 3500- Mg B Calculation method
10.	Chlorides as Cl	mg/lit	158	≤250	IS3025(Part-32) RA 2009 Argentometric Method
11.	Sulphate as SO ₄ ²⁻	mg/lit	92.0	≤200	APHA-23rd Edition 2017-B-SO ₄ ²⁻
12.	Total Alkalinity as CaCO ₃	mg/lit	577	≤200	IS3025(Part-23) RA 2009
13.	Nitrate as NO ₃	mg/lit	2.02	≤45.0	APHA 23rd Edition 2017/4500-B- NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	CFU/ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

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(Analyst)

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TEST REPORT

NAME OF COMPANY & ADDRESS:

M/s. Bhima Sitankar salunkar salkar kanksha Ltd.
 Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. -
 Pune-412406

Report No AL/TR/30-662/2020-21
 Report Date 08/01/2021
 Inward No 12-455
 Inward Date 30/12/2020
 Analysis Start date 01/01/2021
 Analysis End date 05/01/2021
 Sample Condition Fit For Analysis

Page 1 of 1

Sample Detail Borewell water- North East Vitthal
 Dhole
 Sample Collected By Party
 Sample Volume 2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour		Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.50	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	3697	Not Specified	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C		7.08	6.5 to 8.5	IS 3025 (Part 11) RA 2012
6.	Total Dissolved Solids	mg/lit	2370	≤500	Electrometric Method IS 3025 (Part 16) RA 2012
7.	Total Hardness as CaCO ₃	mg/lit	662	≤200	Gravimetric method
8.	Calcium as Ca	mg/lit	249	≤75.0	IS3025(Part-21) RA 2014 EDTA Titrimetric method
9.	Magnesium as Mg	mg/lit	9.22	≤30.0	IS3025(Part-40) RA 2009 EDTA Method
10.	Chlorides as Cl	mg/lit	99.3	≤250	APHA 23rd Edition 2017 3500-Mg B Calculation method
11.	Sulphate as SO ₄ ²⁻	mg/lit	11.2	≤200	IS3025(Part-32) RA 2009 Argentometric Method
12.	Total Alkalinity as CaCO ₃	mg/lit	399	≤200	APHA-23rd Edition 2017-B-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	3.54	≤45.0	IS3025(Part-23)RA 2009
14.	Iron as Fe	mg/lit	BDL	≤0.3	APHA 23rd Edition 20174500-B NO ₃ IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Present	Absent	
16.	Focal Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	CFU/ml	Present	Absent	IS1622:1981 Reaff.2014

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Verified by
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TEST REPORT

Page 1 of 1

NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. - Pune-412406		Report No AI/TR/30-659/2020-21
Sample Detail Well water-North west tanishka hotel		Report Date 08/01/2021
Sample Collected By Party		Inward No 12-452
Sample Volume 2250 ml		Inward Date 30/12/2020
		Analysis Start date 01/01/2021
		Analysis End date 05/01/2021
		Sample Condition Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.50	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	4241	Not Specified	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.69	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	2757	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO ₃	mg/lit	595	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	153	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	50.7	≤30.0	APHA 23rd Edition 2017 3500- Mg B Calculation method
10.	Chlorides as Cl	mg/lit	74.4	≤250	IS3025(Part-32) RA 2009 Argentometric Method
11.	Sulphate as SO ₄ ²⁻	mg/lit	7.80	≤200	APHA-23rd Edition 2017-B-SO ₄ ²⁻
12.	Total Alkalinity as CaCO ₃	mg/lit	543	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO ₃	mg/lit	3.42	≤45.0	APHA 23rd Edition 20174500-B- NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E-Coli	CFU/ml	Present	Absent	IS1622:1981 Reaff.2014

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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karhana Ltd. Dattatraynagar, Pargaon Village-Awasari BK. Tal.- Ambegaon, Dist. - Pune-412406		Report No	AL/TR/38-661/2020-21
Sample Detail		Report Date	08/01/2021
Well water-Dattu Walse		Inward No	12-454
Sample Collected By	Party	Inward Date	30/12/2020
Sample Volume	2250 ml	Analysis Start date	01/01/2021
		Analysis End date	05/01/2021
		Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.40	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	4479	Not Specified	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.22	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	2777	<500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO ₃	mg/lit	864	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	222	<75.0	IS3025(Part-40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	73.0	≤30.0	APHA 23rd Edition 2017 3500- Mg B Calculation method
10.	Chlorides as Cl	mg/lit	94.3	≤250	IS3025(Part-32) RA 2009 Argentometric Method
11.	Sulphate as SO ₄ ²⁻	mg/lit	BDL	≤200	APHA-23rd Edition 2017-E-SO ₄ ²⁻
12.	Total Alkalinity as CaCO ₃	mg/lit	366	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO ₃	mg/lit	3.44	≤45.0	APHA 23rd Edition 20174500-B- NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-83)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E. Coli	CFU/ml	Present	Absent	IS1622:1981 Reaff.2014

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TEST REPORT

Page 1 of 1

NAME OF COMPANY & ADDRESS: M/s. Hirma Shankar Sahakar Sahkar Karbhau Ltd. Dattaraynagar, Pargaon Village-Awasari Bk. Tal. Ambegaon, Dist. Pune-112406		Report No AL/FR/39-060/2020-21
Sample Detail Well Water- Colony Area (South East)		Report Date 02/02/2021
Sample Collected By Pary		Inward No 1-303
Sample Volume 2250 ml		Inward Date 25/01/2021
		Analysis Start date 28/01/2021
		Analysis End date 01/02/2021
		Sample Condition Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.60	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	2895	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	--	7.85	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1526	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO ₃	mg/lit	470	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	145	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	25.3	≤30.0	APHA 23 rd Edition 2017 3500-Mg B Calculation method
10.	Chlorides as Cl	mg/lit	55.0	≤250	IS3025(Part-32) RA 2009 Argentometric Method
11.	Sulphate as SO ₄ ²⁻	mg/lit	5.77	≤200	APHA 23 rd Edition 2017-E-SO ₄ ²⁻
12.	Total Alkalinity as CaCO ₃	mg/lit	329	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO ₃	mg/lit	2.72	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	CFU/ml	Present	Absent	IS1622:1981 Reaff.2014

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- ❖ N.S-Not Specified.

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(Analyst)

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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakar Sakhar Karkhana Ltd. Dattatraynagar, Parguaon Village-Awasari Bk. Tal.- Ambegaon, Dist. - Pune-412406		Report No AI/FR/39-059/2020-21	Report Date 02/02/2021
Sample Detail Well Water- Hazrnath Jadhav (South west)		Inward No 1-382	Inward Date 25/01/2021
Sample Collected By Party		Analysis Start date 28/01/2021	Analysis End date 01/02/2021
Sample Volume 2250 ml		Sample Condition Fit For Analysis	

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Pazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	BDL	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOS/cm	5668	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	--	7.35	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electronic Method
6.	Total Dissolved Solids	mg/lit	2994	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO3	mg/lit	710	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	199	<75.0	IS3025(Part-40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	50.7	≤30.0	APHA 23rd Edition 2017 3500-Mg B Calculation method
10.	Chlorides as Cl	mg/lit	125	≤250	IS3025(Part-32) RA 2009 Argentometric Method
11.	Sulphate as SO4 ²⁻	mg/lit	4.92	≤200	APHA-23rd Edition 2017-B-SO4 ²⁻
12.	Total Alkalinity as CaCO3	mg/lit	419	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO3	mg/lit	3.68	≤45.0	APHA 23rd Edition 20174500-B-NO3
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E-Coli	CFU/ml	Present	Absent	IS1622:1981 Reaff.2014

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(Analyst)

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NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargion Village-Awasari Bk. Tal.- Ambegaon, Dist. - Pune-412406		Report No AL/TR/19/058/2020-21 Report Date 02/02/2021 Inward No 1381 Inward Date 25/01/2021 Analysis Start date 28/01/2021	Page 1 of 1 AL/TR/19/058/2020-21 02/02/2021 1381 25/01/2021 28/01/2021 01/02/2021 Fit For Analysis
Sample Detail Well Water-Santosh Dhoble(Norik East)	Sample Collected By Party Sample Volume 2250 ml	Analysis End date 01/02/2021 Sample Condition Fit For Analysis	

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.30	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOS/cm	6121	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.60	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	3240	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO ₃	mg/lit	758	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	184	≤75.0	IS3025(Part 40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	71.4	≤30.0	APHA 23rd Edition 2017 3500- Mg B Calculation method
10.	Chlorides as Cl ⁻	mg/lit	140	≤250	IS3025(Part-32) RA 2009 Argentometric Method
11.	Sulphate as SO ₄ ²⁻	mg/lit	740	≤200	APHA-23rd Edition 2017 B-50.2
12.	Total Alkalinity as CaCO ₃	mg/lit	488	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO ₃	mg/lit	3.68	≤5.0	APHA 23rd Edition 20174500-B- NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part 53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E. Coli	CFU/ml	Present	Absent	IS1622:1981 Reaff.2014

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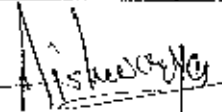
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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Uttatraynagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. - Pune-412406		Report No	AI/TR/39-061/2020-21
		Report Date	02/02/2021
		Inward No	1-381
		Inward Date	25/01/2021
Sample Detail	Well Water- Suresh Pingle(North West)	Analysis Start date	28/01/2021
Sample Collected By	Parly	Analysis End date	01/02/2021
Sample Volume	2250 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.50	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	6510	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.85	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	3424	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO ₃	mg/lit	585	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	165	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	41.5	≤30.0	APHA 23 rd Edition 2017 3500-Mg B Calculation method
10.	Chlorides as Cl	mg/lit	130	≤250	IS3025(Part-32) RA 2009 Argentometric Method
11.	Sulphate as SO ₄ ²⁻	mg/lit	4.19	≤200	APHA-23 rd Edition 2017-B-SO ₄ ²⁻
12.	Total Alkalinity as CaCO ₃	mg/lit	783	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO ₃	mg/lit	3.69	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E. Coli	CFU/ml	Present	Absent	IS1622:1981 Reaff.2014

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 (Analyst)


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NAME OF COMPANY & ADDRESS: M/s. Dhima Shankar saktari saktar karlkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Yal- Ambegaon, Dist. - Pune-412406		Report No AL/TR/39-062/2020-21
Sample Detail Well Water - Shivaji Ponde		Report Date 02/02/2021
Sample Collected By Party		Inward No 1-385
Sample Volume 2250 ml		Inward Date 25/01/2021
		Analysis Start date 28/01/2021
		Analysis End date 01/02/2021
		Sample Condition Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.20	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOS/cm	6762	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.53	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit.	3571	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO ₃	mg/lit	700	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	230	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	30.0	≤30.0	APHA 23rd Edition 2017 3500- Mg B Calculation method
10.	Chlorides as Cl	mg/lit	239	≤250	IS3025(Part-32) RA 2009 Argentometric Method
11.	Sulphate as SO ₄ ²⁻	mg/lit	6.95	≤200	APHA-23rd Edition 2017-E-SO ₄ ²⁻
12.	Total Alkalinity as CaCO ₃	mg/lit	408	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO ₃	mg/lit	3.67	≤45.0	APHA 23rd Edition 20174500-B- NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E-Coli	CFU/ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

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- BDL- Below Detectable Limit.
- N.S-Not Specified.

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TEST REPORT

Page 1 of 1

NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Parganah Village Avasari, Bk. Tal.- Ambegaon, Dist. - Pune-412406		Report No AL/TR/39-42/2020-21	Report Date 03/03/2021
Sample Detail Borewell water-Nandu Sable East Side	Sample Collected By Party	Inward No 2-323	Inward Date 22/02/2021
Sample Volume 2250 ml		Analysis Start date 24/02/2021	Analysis End date 02/03/2021
		Sample Condition Fit For Analysis	

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS:1025(Part-4)
2.	Odour		Unobjectionable	Unobjectionable	IS:1025(Part-5)
3.	Turbidity @ 25°C	NTU	0.88	≤1.0	IS:1025(Part-10)
4.	Conductivity	µMHOs/cm	2401	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C		7.18	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1561	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO ₃	mg/lit	1089	<200	IS:1025(Part 21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	297	≤75.0	IS:1025(Part-40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	83.2	≤30.0	APHA 23rd Edition 2017 3500-Mg B Calculation method
10.	Chlorides as Cl	mg/lit	58.3	≤250	IS:1025(Part-32) RA 2009 Argentometric Method
11.	Sulphate as SO ₄ ²⁻	mg/lit	97.0	<200	APHA 23rd Edition 2017-B-SO ₄ ²⁻
12.	Total Alkalinity as CaCO ₃	mg/lit	467	≤240	IS:1025(Part-23)RA 2009
13.	Nitrate as NO ₃	mg/lit	2.42	≤45.0	APHA 23rd Edition 2017 4500-B-NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS:1025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Absent	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN Index/100ml	Absent	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	CFU/ml	Absent	Absent	IS1622:1981 Reaff.2014

REMARK

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- ❖ N.S-Not Specified.

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TEST REPORT

NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Ra. Tal.-Aundhegaon, Dist. - Pune-412306		Report No AL/TR/39-441/2020-21	Page 1 of 1
Sample Detail Well water-Rohidas Bhagwat West Side		Report Date 03/03/2021	
Sample Collected By	Party	Inward No 7-322	
Sample Volume 2250 ml		Inward Date 22/02/2021	
		Analysis Start date 24/02/2021	
		Analysis End date 02/03/2021	
		Sample Condition Fit for Analysis	

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Plazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.28	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	2003	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.36	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1302	<500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO ₃	mg/lit	762	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	206	<75.0	IS3025(Part-40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	59.4	≤30.0	APHA 23 rd Edition 2017/3500- Mg B Calculation method
10.	Chlorides as Cl	mg/lit	218	≤250	IS3025(Part-32) RA 2009 Argentometric Method
11.	Sulphate as SO ₄ ²⁻	mg/lit	9.15	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
12.	Total Alkalinity as CaCO ₃	mg/lit	536	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO ₃	mg/lit	7.24	≤45.0	APHA 23 rd Edition 2017/4500-B- NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Absent	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN Index/100ml	Absent	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	CFU/ml	Absent	Absent	IS1622:1981 Reaff.2014

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Page 1 of 1

NAME OF COMPANY & ADDRESS:

M/s. Ritina Shankar sahnkari sahnkar karbhawa Ltd,
 Dattatraynagar, Porgaon Village-Awasari Bk. Tal. Ambegaon, Dist.
 Pune-412406

Report No	AL/TR/39-443/2020-21
Report Date	03/03/2021
Inward No	2-324
Inward Date	22/02/2021
Analysis Start date	24/02/2021
Analysis End date	02/03/2021
Sample Condition	Fit For Analysis

Sample Detail	Well Water-Raundas Thorat North Side
Sample Collected By	Party
Sample Volume	2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour		Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.68	<1.0	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	1635	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C		7.80	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1063	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO ₃	mg/lit	545	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	132	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	50.0	≤30.0	APHA 23 rd Edition 2017 4500 Mg B Calculation method
10.	Chlorides as Cl	mg/lit	63.1	<250	IS3025(Part-32) RA 2009 Argentometric Method
11.	Sulphate as SO ₄ ²⁻	mg/lit	8.31	≤200	APHA-23 rd Edition 2017 E 5047
12.	Total Alkalinity as CaCO ₃	mg/lit	513	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO ₃	mg/lit	6.19	≤45.0	APHA 23 rd Edition 2017 4500-B-NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E. Coli	CFU/ml	Present	Absent	IS1622:1981 Reaff.2014

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TEST REPORT

NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattabraynagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. - Pune-412406		Report No M/TR/39-440/2020-21
Sample Detail Borewell water-Shankar Dattir South Side		Report Date 03/03/2021
Sample Collected By Party		Inward No 2321
Sample Volume 2250 ml		Inward Date 22/02/2021
		Analysis Start date 21/02/2021
		Analysis End date 02/03/2021
		Sample Condition Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10300, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.48	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	1906	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.38	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1239	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO ₃	mg/lit	812	≤200	IS3025(Part-21) RA 2013 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	242	<75.0	IS3025(Part-40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	50.0	<30.0	APHA 23rd Edition 2017 3500-Mg B Calculation method
10.	Chlorides as Cl	mg/lit	208	≤250	IS3025(Part-32) RA 2009 Argentometric Method
11.	Total Alkalinity as CaCO ₃	mg/lit	422	<200	IS3025(Part-23)RA 2009
12.	Sulphate as SO ₄ ²⁻	mg/lit	28.5	≤200	APHA-23rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	5.83	≤45.0	APHA 23rd Edition 2017 4500-NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part 53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN index/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN index/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E. Coli	CFU/ml	Present	Absent	IS1622:1981 Reaff.2014

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TEST REPORT

Page 1 of 1

NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakar Sakhyar Itardhana Ltd. Dattatraynagar, Pargan Village Awasari, Bk. Tal.- Ambegaon, Dist. - Pune-412406		Report No AL/TR/39-445/2020-21	Report Date 03/03/2021
Sample Detail River water Sangam		Inward No 2-326	Inward Date 22/02/2021
Sample Collected by Party		Analysis Start date 24/02/2021	Analysis End date 02/03/2021
Sample Volume 2250 ml		Sample Condition Fit For Analysis	

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Haazen	BDL	≤5.00	IS:3025(Part-4)
2.	Odour		Unobjectionable	Unobjectionable	IS:3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.88	≤1.0	IS:3025(Part-10)
4.	Conductivity	µMHOS/cm	721	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C		8.20	6.5 to 8.5	IS:3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	469	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO ₃	mg/lit	248	≤200	IS:3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	75.2	≤75.0	IS:3025(Part-40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	14.3	≤30.0	APHA 23rd Edition 2017 3500-Mg B Calculation method
10.	Chlorides as Cl	mg/lit	305	≤250	IS:3025(Part-32) RA 2009 Argentometric Method
11.	Sulphate as SO ₄ ²⁻	mg/lit	4.41	≤200	APHA-23rd Edition 2017 B-SO ₄ ²⁻
12.	Total Alkalinity as CaCO ₃	mg/lit	217	≤200	IS:3025(Part-23)RA 2009
13.	Nitrate as NO ₃	mg/lit	1.98	≤45.0	APHA 23rd Edition 2017 4500-B NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.1	IS:3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Present	Absent	IS:1622:1981 Reaff.2014
16.	Fecal Coliform	MPN Index/100ml	Doubtful	Absent	IS:1622:1981 Reaff.2014
17.	E-Coli	CFU/ml	Present	Absent	IS:1622:1981 Reaff.2014

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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakar Sakhar Karkhuna Ltd. Dattatraynagar, Pargan Village-Awasari Bk. Tal.- Ambegaon, Dist. - Pune-412406		Report No	AL/TR/39-444/2020-21
Sample Detail		Report Date	03/03/2021
Sample Collected By	Karkhuna Raw Water	Inward No	2-325
Sample Volume	2250 ml	Inward Date	22/02/2021
		Analysis Start date	24/02/2021
		Analysis End date	02/03/2021
		Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.26	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	749	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.16	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	387	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO ₃	mg/lit	277	<200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	47.5	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	30.0	<30.0	APHA 23 rd Edition 2017 3500-Mg B Calculation method
10.	Chlorides as Cl	mg/lit	43.7	≤250	IS3025(Part-32) RA 2009 Argentometric Method
11.	Sulphate as SO ₄ ²⁻	mg/lit	4.24	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
12.	Total Alkalinity as CaCO ₃	mg/lit	205	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO ₃	mg/lit	2.08	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part 53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Absent	Absent	IS1622:1981 Reaff.2014
16.	Focal Coliform	MPN Index/100ml	Absent	Absent	IS1622:1981 Reaff.2014
17.	E. Coli	CFU/ml	Absent	Absent	IS1622:1981 Reaff.2014

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TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karhana Ltd. Dattatraynagar, Pargan Village-Awasari Blk. Tal- Ambegaon, Dist. Pune-417406		Report No AI/TR/39-980/2021-22
Sample Detail Well Water North Side sluri, Damu Dhobate		Report Date 03/04/2021
Sample Collected By Sample Volume	Party 2250 ml	Inward No 3-454
		Inward Date 28/03/2021
		Analysis Start date 30/03/2021
		Analysis End date 02/04/2021
		Sample Condition Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	---	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.84	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOS/cm	1569	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.65	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1020	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO ₃	mg/lit	550	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	128	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	55.2	≤30.0	APHA 23rd Edition 2017 3500-Mg B Calculation method
10.	Chlorides as Cl	mg/lit	104	≤250	IS3025(Part-32) RA 2009 Argentometric Method
11.	Total Alkalinity as CaCO ₃	mg/lit	322	≤200	IS3025(Part-23)RA 2009
12.	Sulphate as SO ₄ ²⁻	mg/lit	30.7	<200	APHA-23rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃ ⁻	mg/lit	8.31	≤45.0	APHA 23rd Edition 2017-4500-N-NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	CFU/ml	Present	Absent	IS1622:1981 Reaff.2014

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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. - Pune-412406		Report No	AL/TR/39-989/2021-22
		Report Date	03/04/2021
		Inward No	3-455
		Inward Date	28/03/2021
Sample Detail	Well Water South Side Shri Shivaji Pande	Analysis Start date	30/03/2021
Sample Collected By	Parly	Analysis End date	02/04/2021
Sample Volume	2250 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.97	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	1980	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.53	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1287	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO ₃	mg/lit	760	<200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	156	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	80.8	≤30.0	APHA 23 rd Edition 2017 3500-Mg B Calculation method
10.	Chlorides as Cl	mg/lit	248	≤250	IS3025(Part-32) RA 2009 Argentometric Method
11.	Total Alkalinity as CaCO ₃	mg/lit	388	≤200	IS3025(Part-23)RA 2009
12.	Sulphate as SO ₄ ²⁻	mg/lit	24.9	≤200	APHA-23 rd Edition 2017-B-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	5.89	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Focal Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	CFU/ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

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- BDL- Below Detectable Limit.
- N.S-Not Specified.

Verified by
(Analyst)

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TEST REPORT

Page 1 of 1

NAME OF COMPANY & ADDRESS:

M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.,
 Dattatraynagar, Ferguson Village-Awasari Bk. Tal. - Ambegaon, Dist. -
 Pune-412406.

Report No AL/18/39-986/2021-22
 Report Date 03/04/2021
 Inward No 3-452
 Inward Date 28/03/2021
 Analysis Start date 30/03/2021
 Analysis End date 02/04/2021
 Sample Condition Fit for Analysis

Sample Detail

Borewell East Side: Shri. Manli Shete
 Sample Collected By Parly
 Sample Volume 2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS:3025(Part-1)
2.	Odour		Unobjectionable	Unobjectionable	IS:3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.77	≤1.0	IS:3025(Part-10)
4.	Conductivity	µMHOs/cm	1935	N.S.	IS:3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C		7.40	6.5 to 8.5	IS 3025 (Part 11) RA 2012
6.	Total Dissolved Solids	mg/lit	1250	≤500	Electrometric Method IS:3025 (Part 16) RA 2012
7.	Total Hardness as CaCO ₃	mg/lit	760	≤200	Gravimetric method IS:3025(Part-21) RA 2014
8.	Calcium as Ca	mg/lit	188	≤75.0	EDTA Titrimetric method IS:3025(Part-40) RA 2009
9.	Magnesium as Mg	mg/lit	69.6	≤30.0	EDTA Method
10.	Chlorides as Cl	mg/lit	44.6	≤250	APHA 23 rd Edition 2017 3500-Mg H Calculation method IS:3025(Part-32) RA 2009
11.	Total Alkalinity as CaCO ₃	mg/lit	458	≤200	Argentometric Method IS:3025(Part-23)RA 2009
12.	Sulphate as SO ₄ ²⁻	mg/lit	55.2	≤200	APHA-23 rd Edition 2017 E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	6.03	≤45.0	APHA 23 rd Edition 2017 4500-N-NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS:3025(Part-S3)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Present	Absent	IS:1622:1981 Res(I).2014
16.	Fecal Coliform	MPN Index/100ml	Present	Absent	IS:1622:1981 Res(II).2014
17.	E-Coli	CFU/ml	Present	Absent	IS:1622:1981 Res(III).2014

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TEST REPORT

Page 1 of 1

NAME OF COMPANY & ADDRESS:

M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.
Dattatraynagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. -
Pune-412406

Report No AL/TR/39-987/2021-22

Report Date 03/04/2021

Inward No 3-453

Inward Date 28/03/2021

Analysis Start date 30/03/2021

Sample Detail Well Water West Side Shri. Ganesh
Boraga

Sample Collected By Party

Analysis End date 02/04/2021

Sample Volume 2250 ml

Sample Condition Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	1.01	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	2287	N.S	IS 3025 (Part 11):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.35	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1487	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO ₃	mg/lit	430	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	116	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	33.6	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
10.	Chlorides as Cl	mg/lit	203	≤250	IS3025(Part-32) RA 2009 Argentometric Method
11.	Total Alkalinity as CaCO ₃	mg/lit	821	≤200	IS3025(Part-23)RA 2009
12.	Sulphate as SO ₄ ²⁻	mg/lit	8.81	≤200	APHA-23 rd Edition 2017-B-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	9.53	≤45.0	APHA 23 rd Edition 2017 4500-B- NO ₃
14.	Iron as Fe	mg/lit	NDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E-Coli	CFU/ml	Present	Absent	IS1622:1981 Reaff.2014

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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakar Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. - Pune-412406		Report No	AL/TR/39-990/2021-22
Sample Detail		Report Date	03/04/2021
Sample Collected By	Borewell Near Karkhana Sbrt. Somnath Sable	Inward No	3-456
Sample Volume	Party 2250 ml	Inward Date	28/03/2021
		Analysis Start date	30/03/2021
		Analysis End date	02/04/2021
		Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.96	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	1343	N.S	IS 3025 (Part 11):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C		7.82	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	873	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO ₃	mg/lit	450	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	80.0	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	60.0	≤30.0	APHA 23rd Edition 2017 3500- Mg B Calculation method
10.	Chlorides as Cl	mg/lit	49.6	≤250	IS3025(Part-32) RA 2009 Argentometric Method
11.	Total Alkalinity as CaCO ₃	mg/lit	422	≤200	IS3025(Part-23)RA 2009
12.	Sulphate as SO ₄ ²⁻	mg/lit	44.4	≤200	APHA-23rd Edition 2017-B-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	7.96	≤45.0	APHA 23rd Edition 2017 4500-B- NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E-Coli	CFU/ml	Present	Absent	IS1622:1981 Reaff.2014

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(Analyst)

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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sabarkari Salkhan Karkhana Ltd. DaUatraynagar, Bargoon Village-Awasari Bk. Tal. - Ambegaon. Dist. Pune-412406.		Report No AL/113/40-315/2021-22	Report Date 30/04/2021
		Inward No 4-316	Inward Date 23/04/2021
Sample Detail Borewell Water- Balshirram waval South west		Analysis Start date 21/04/2021	
Sample Collected By Party		Analysis End date 28/04/2021	
Sample Volume 2250 ml		Sample Condition Fit For Analysis	

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	-	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	1.08	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	19230	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	-	7.78	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	925	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	79.4	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	378	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	540	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	160	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	33.6	≤30.0	APHA 23rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	12.2	≤200	APHA-23rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	8.70	≤45.0	APHA 23rd Edition 2017 4500-N- NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	CFU/ml	Present	Absent	IS1622:1981 Reaff.2014

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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sabakari Sakhar Karichana Ltd. Dattatraynagar, Pargan Village-Awasari Bk. Tal- Amhegaon, Dist - Pune 412406		Report No	AI/TR/40-317/2021-22
Sample Detail Well water-Sumel Pingale South East		Report Date	30/04/2021
Sample Collected By	Party	Inward No	4-318
Sample Volume	2250 ml	Inward Date	23/04/2021
		Analysis Start date	24/04/2021
		Analysis End date	28/04/2021
		Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	<5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.97	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOS/cm	9026	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.48	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	941	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	99.2	<250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	535	<200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	400	≤200	IS3025(Part-24) RA 2011 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	92.0	<75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	10.8	<30.0	APHA 23 rd Edition 2017 3506-Mg & Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	6.78	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	2.70	≤45.0	APHA 23 rd Edition 20174500-N-NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E-Coli	CFU/ml	Present	Absent	IS1622:1981 Reaff.2014

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TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakar Sakhar Karkhana Ltd. Dattatraynagar, Pargan Village-Awasari Bk. Tal.- Ambegaon, Dist. Pune-412406		Report No: AL/TR/40-319/2021-22
Sample Detail Well water-Vijay Walse North East		Report Date: 30/04/2021
Sample Collected By: Party		Inward No: 4-320
Sample Volume: 2250 ml		Inward Date: 23/04/2021
		Analysis Start date: 24/04/2021
		Analysis End date: 28/04/2021
		Sample Condition: Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.94	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	7268	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.85	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	639	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	69.5	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	273	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	350	≤700	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	48.0	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	55.2	≤30.0	APHA 23rd Edition 2017 3500-Mg D Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	26.6	≤200	APHA-23rd Edition 2017-B-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	6.81	≤45.0	APHA 23rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	CFU/ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

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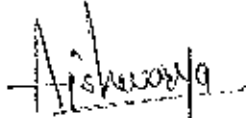
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AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/57-301/20-21
		Report Date	07/12/2020
		Inward No	AL/6-855/09/20-21
		Inward Date	28/11/2020
Sample Location	Company Premises	Sampling Time	03:00 PM To 03:30 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
A. Outside of Shop					
1.	Near Guest house	dB(A)	58.3	≤ 75 dB(A)	IS 4758-1968 (PART 10) RA 2002
2.	Near Sugar Godam	dB(A)	60.2		
B. Inside of Shop					
3.	Near New Boiler	dB(A)	73.4	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
4.	Near Old Boiler Id fan	dB(A)	86.7		
5.	Sugar House	dB(A)	53.7		
6.	Near Old Boiler	dB(A)	72.9		

REMARK, OPINION & INTERPRITATION-

- All above results are within limits as per MPCB Consent & The Factories Act 1948, standards.


Verified by
(Analyst)


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AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AI/TR/57-944/20-21
		Report Date	08/01/2021
		Inward No	AI/6-905/09/20-21
		Inward Date	30/12/2020
Sample Location	Company Premises	Sampling Time	02:00 PM To 02:30 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
A. Outside of Shop					
1.	Near Kondoba Mandir	dB(A)	65.9	≤ 75 dB(A)	IS 4758-1968 (PART 10) RA 2002
2.	Near Bas Stop	dB(A)	60.2		
B. Inside of Shop					
3.	Near Spray Pond	dB(A)	68.2	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
4.	Near centrifugal section	dB(A)	71.2		
5.	Near Old Boiler	dB(A)	70.1		
6.	Near New Boiler	dB(A)	72.3		

REMARK, OPINION & INTERPRITATION-

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Verified by
(Analyst)


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AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/58-239/20-21
		Report Date	04/02/2021
		Inward No	AL/6-929/09/20-21
		Inward Date	25/01/2021
Sample Location	Company Premises	Sampling Time	01:00PM To 01:30 PM
Sample Collected By	AARI.	Time duration	30Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
A. Outside of Shop					
1.	Near Khandoba Mandir	dB(A)	65.0	≤ 75 dB(A)	IS 4758-1968 (PART 10) RA 2002
2.	Near Bas Stop	dB(A)	62.5		
B. Inside of Shop					
3.	Near Spray Pond	dB(A)	64.2	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
4.	Near centrifugal section	dB(A)	78.2		
5.	Near Old Boiler	dB(A)	77.9		

REMARK, OPINION & INTERPRETATION-

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A. S. Kulkarni
Verified by
(Analyst)

C. S. Kulkarni
Authorized Signatory

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AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/PR/58-597/20-21
		Report Date	03/03/2021
		Inward No	AL/6-960/09/20-21
		Inward Date	22/02/2021
Sample Location	Company Premises	Sampling Time	03:00PM To 03:30 PM
Sample Collected By	AARL	Time duration	30Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
A. Outside of Shop					
1.	Near Khandoba Mandir	dB(A)	63.2	≤ 75 dB(A)	IS 4758-1968 (PART 10) RA 2002
2.	Near Bus Stop	dB(A)	65.7		
B. Inside of Shop					
3.	Near Spray Pond	dB(A)	66.9	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
4.	Near centrifugal section	dB(A)	75.4		
5.	Near Old Boiler	dB(A)	83.4		
6.	Near New Boiler	dB(A)	76.2		

REMARK, OPINION & INTERPRITATION-

- ❖ All above results are within limits as per MPCB Consent The Factories Act 1948, standards.


Verified by
(Analyst)


Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Ministry of Environment Forest and Climate Change (MoEFCC), New Delhi
- ISO 9001 : 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Ekima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AI/TR/59-243/21-22
		Report Date	05/04/2021
		Inward No	AI/7-20/09/21-22
Sample Location Company Premises		Inward Date	28/03/2021
		Sample Collected By AARL	Sampling Time 02:30PM To 03:00 PM
		Time duration	30 Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
A. Outside of Shop					
1.	Near Sakhar shala	dB(A)	61.2	≤ 75 dB(A)	IS 4759-1968 (PART 10) RA 2002
2.	Near College	dB(A)	58.4		
B. Inside of Shop					
3.	Near Boiling house	dB(A)	88.0	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
4.	Near Work Shop	dB(A)	86.9		
5.	Near Mill House	dB(A)	87.4		

REMARK, OPINION & INTERPRITATION-

- All above results are within limits as per MPCB Consent The Factories Act 1948, standards.

Ashy
Verified by
(Analyst)

(Ashy)
Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

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* ISO 9001 : 2015 Certified Organization
* ISO 15001 : 2018 Certified Organization

AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/59-472/21-22
		Report Date	30/04/2021
		Inward No	AL/7-39/09/21-22
		Inward Date	22/04/2021
Sample Location	Company Premises	Sampling Time	04:00 PM To 04:30 PM
Sample Collected By	AARI.	Time duration	30 Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
A. Outside of Shop					
1.	Near Sakhar shala	dB(A)	61.3	≤ 75 dB(A)	IS 4759-1968 (PART 10) RA 2002
2.	Near Guest	dB(A)	60.2		
B. Inside of Shop					
3.	Boiler No-1	dB(A)	85.6	≤ 90 dB(A)	IS 9989-1981 (IA 2001)
4.	Mill Section	dB(A)	87.8		
5.	Sugar House	dB(A)	71.2		
6.	Spray pond	dB(A)	78.4		

REMARK, OPINION & INTERPRITATION-

- ❖ All above results are within limits as per MPCB Consent The Factories Act 1948, standards.

Signature

Authorized Signatory

...End of test report...



वन परिक्षेत्र अधिकारी, मंचर(प्रा) यांचे कार्यालय
नवसावित्री उद्यान, अचवरी धारा तालुका अंबेगाव, जिल्हा पुणे

E- Mail: rfoimanchar@gmail.com

११/११



विषय - झाडांमधील अंतर प्रमाणात करून
मिळणेबाबत..

जा./क्र./संकिर्ण/ १७६८/२०१९ - २०


मंचर ४१०५०३ दिनांक - ०२/१२/२०१९

संदर्भ - भीमाशंकर सहकारी साखर कारखाना लि. दिनांक- २९/११/२०१९.

वरील विषयी वनपाल धामणी व वनरक्षक लांखनगाव यांनी भीमाशंकर सहकारी साखर कारखाना परिसरत व सभोवतालें १९.५३ हे.क्षेत्रात ६५०२ वृक्ष लागवड केलेल्या सोबत दर्शविलेल्या यादीतील फळझाडे इ.अंजा,नारळ,चिक्कू,जांभुळ,सीताफळ,आवळा,फणस इ.वृक्षामधील सरासरी अंतर ९ ते १० मी असून इतर प्रजातीतील ३ ते ४ मी. आहे.

तसेच शोभेच्या झाडातील अंतर २ ते ३ मी. आहे.लागवड केलेल्या वृक्षातील अंतर योग्य आहे.




(योगेश एस. महाजन)
वनपरिक्षेत्र अधिकारी
मंचर.

जमा/ताकूअ/ विस्तार/३६१५/२०१९
तालुका कृषि अधिकारी, आंबेगाव
(पोडेगाव) दि. २/१२/२०१९

प्रति,

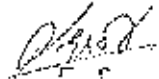
भा.कार्यकारी संचालक,
भिमशंकर सहकारी साखर कारखाना,
पारगाव त.अवसरी वु.

विषय -- झाडांमधील अंतर प्रमाणित करून मिळवोदायत.

संदर्भ -- भिमशंकर सहकारी साखर कारखाना पारगाव त.अवसरी वु यांचे कडील
पत्र जमा /शेतकरी /२६८९/१९ दिनांक २७/११/१९.

उपरोक्त संदर्भीय दिवसान्वये कळविण्यात येते की, भिमशंकर सहकारी साखर कारखाना
परिस्तान्तील कार्यक्षेत्रामध्ये जास्तीत जास्त हाठे लावून थरसर हरीत कार्पोसारी सोबत जोडलेल्या
थारीप्रमाणे १९.५३ हे.आर क्षेत्रात ६५०९ दुक्ष लागवड व्हेलेल्यातचे सदपत्र प्राप्त झाले आहे.

सदर सहपत्राचे अवलोकन केले असता सोदलज्या दोन झाडांमधील अंतर संमुक्तीक असलेचे
प्रमाणित करणेत येत आहे.


तालुका कृषि अधिकारी
आंबेगाव (पोडेगाव) जि.मुणे

भोगाशंकर राहकारी राखर कारखाना लि., वृत्तालयनगर

पारंपरा गणेश काशी इ. ११, ता.अद्वैतगढ़, डि.मुंबे.

इकाईची मापे व अंतर तपशिल

क्र.सं.	इकाईची मापे	वृत्त लागवड (संख्या)			आज अन्वयेर एकूण	प्रति वृत्त आवरणक अंतर (मी. X मी.)	प्रति वृत्त (स्क्वेअर मी.)	वृत्त लागवड क्षेत्र (हे.आर.)
		२०५७-५८ (पुर्वीची)	२०१८-१९	२०१९-२०				
१	गिरेज	९४०	०	०	१७०	५ X ५	२५	०.४३
२	आठवा	५९	१०५	५५	१७९	१० X १०	१००	१.७९
३	किचन	५८	०	०	५८	१० X १०	८९	०.४७
४	आगळा	३	५	०	८	६ X ६	३६	०.०३
५	फगस	७	०	०	७	६ X ६	३६	०.०४
६	कागती लिहू	२२	०	०	२२	५ X ५	२५	०.०५
७	सिताफळ	४३९	०	०	४३९	४ X ४	१६	०.२२
८	मेरु	२९	०	०	२९	६ X ६	३६	०.१०
९	अंभुळ	२८	०	२५	५३	६ X ६	३६	०.१९
१०	लिन	७	४०	६५०	६९७	६ X ६	३६	४.४५
११	डाळेरीब	५	०	०	५	४ X ४	१६	०.०५
१२	बीज	६	०	०	६	६ X ६	३६	०.०३
१३	बीर	११	०	०	११	४ X ४	१६	०.०३
१४	गुलगात्र	२३	५०	०	७३	६ X ६	३६	०.४७
१५	रेचट्टी	१६	११०	०	१२६	६ X ६	३६	०.८५
१६	बोहल पान	२४९	२२	५०	३२१	५ X ५	२५	०.४८
१७	फिलोशिया घास	१४	३	०	१७	५ X ५	२५	०.०४
१८	शासनपर्णी	५२	४८	०	१००	६ X ६	३६	०.३४
१९	सिप सोहर	१७	५६	०	७३	६ X ६	३६	०.४७
२०	गड	१२०	६	५	१२६	१० X १०	१००	१.२६
२१	अजुंग	२९	२०	०	४९	६ X ६	३६	०.३५
२२	सिल्वर ओक	६	०	०	६	५ X ५	२५	०.०३
२३	फोशिय	३५	३५	१०५	१७५	६ X ६	३६	१.५३
२४	शिराम	१२५	२०	०	१४५	६ X ६	३६	०.९३
२५	सिपळ	१७	०	०	१७	६ X ६	३६	०.१५
२६	फायकस	०	५०	०	५०	४ X ४	१६	०.०८
२७	बाबू	१२	०	०	१२	४ X ४	१६	०.०३
२८	अरुज	३३	०	१०	४३	६ X ६	३६	०.४९
२९	बोहल ब्रग	१९	०	०	१९	४ X ४	१६	०.०३
३०	कट्टसिब	२००	०	१५	२१५	६ X ६	३६	१.०६
३१	बबाम	३०	०	०	३०	६ X ६	३६	०.१५
३२	रुड	३५	०	०	३५	६ X ६	३६	०.१५
३३	अशोक	९९	०	०	९९	४ X ४	१६	०.१६
३४	रपेशोसिया	६	०	०	६	६ X ६	३६	०.०४
३५	काचिन (आफटा)	३९	०	१००	१३९	६ X ६	३६	०.८९
३६	सोनवाफा	५	०	०	५	४ X ४	१६	०.०५
३७	पाळस वाफा	२५	०	०	२५	४ X ४	१६	०.०३
३८	उंबर	१५	०	०	१५	६ X ६	३६	०.०७
३९	विलफिरी	३४	०	०	३४	३ X ३	९	०.०३
४०	सामफल	१४	०	०	१४	५ X ५	२५	०.०४
४१	रुसागळे	२५३	०	०	२५३	४ X ४	१६	०.३४
४२	शेवगा	१४	०	०	१४	३ X ३	९	०.०५
४३	अजीर	२	०	०	२			
४४	पांगारा	१	०	०	३			
४५	अंजरी	७	०	०	७	४ X ४	१६	०.०५
४६	गोडी	४	०	०	४	३ X ३	९	०.०५
४७	गारुळ	६४	०	०	६४	६ X ६	३६	०.३३
४८	शेकर	९	०	०	९			

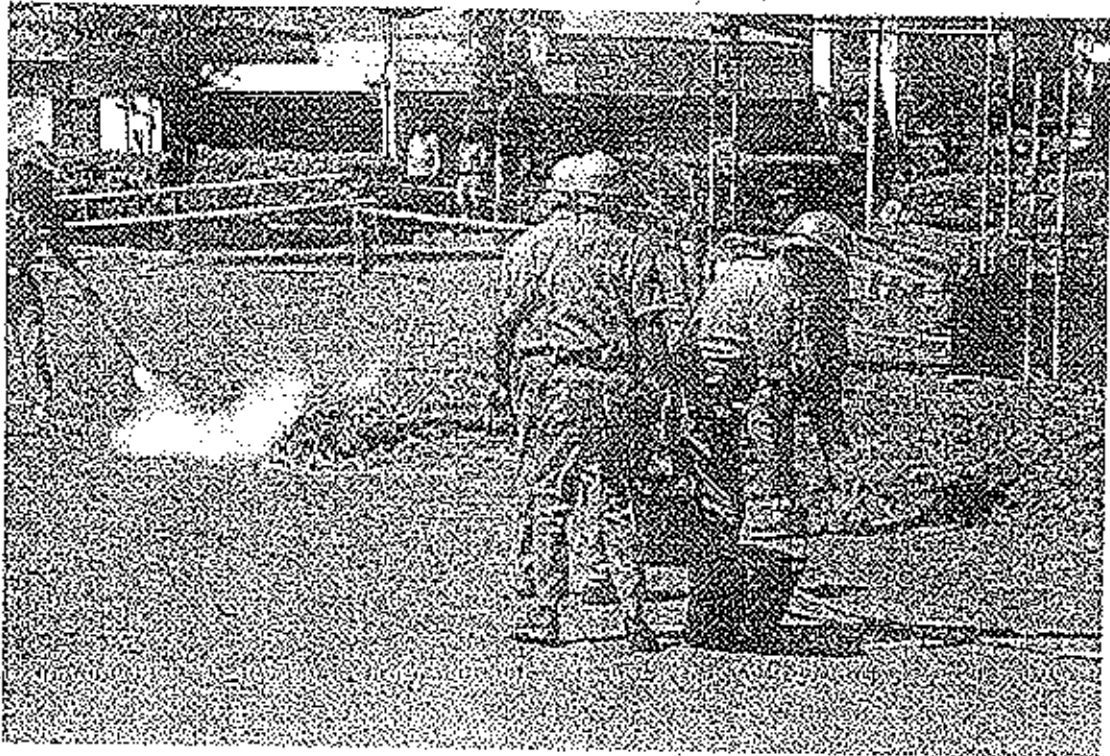
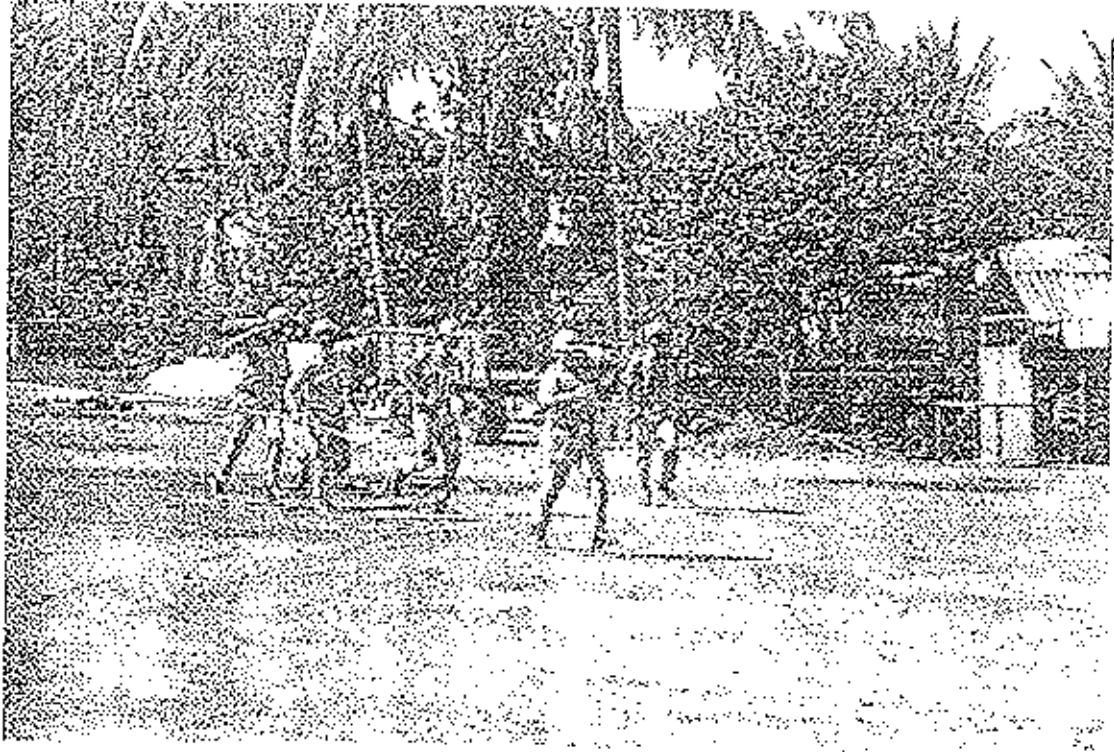
अ.क्र.	प्रकार की नाम	कृषि लागत (रुपये)			आवक आधेस एकड़	प्रति कृषि लागतका अंतर (मी. X मी.)	प्रति कृषि (रुपये/अर मी.)	कृषि लागत-3 क्षेत्र (हे.आर)
		२०१७-१८ (पूर्ववर्ती)	२०१८-१९	२०१९-२०				
३९	प्याई	८	०	०	८	३ X ३	९	०.०१
४०	पैल	३	०	०	३	६ X ६	३६	०.०१
४१	सेमरी	१२	०	०	१२	४ X ४	१६	०.०२
४२	बेनदार	२७	०	०	२७	८ X ३	६३	०.१७
४३	किगाकरा	२	०	०	२			
४८	बकवास	४	०	०	४			
४५	बेहुकली	१	०	०	१			
४६	भेहडा	२	०	०	२			
४७	बिचकरी	३६	०	०	३६	२ X २	४	०.०६
४८	सागर	५	०	०	५			
४९	करवद	२	०	०	२			
५०	सिरडा	०	०	२५	२५	५ X ५	२५	०.०६
	एकूण	२१६३	५७०	११९५	३३२८			१९.१७
	बुधोस							
५१	उडरवा	३८	०	०	३८	२ X २	४	०.०१
५२	तगर गडवा	७१	०	०	७१	२ X २	४	०.०३
५३	योगा बेल	४०२	०	०	४०२	२ X २	४	०.१६
५४	मोरपल्ली	१३	०	०	१३	२ X २	४	०.०१
५५	रातशर्मा	३	०	०	३			
५६	प्राजाप	२	०	०	२			
५७	धिरंगता	२	०	०	२			
	एकूण	५२१	०	०	५२१			०.२१
	मुलगाऊ/संगेची आड							
६८	गुलार	८८	०	०	८८	२ X १.५	३	०.०३
६९	मिती	४३	०	०	४३	२ X १.५	३	०.०१
७०	कोटीप	५०	०	०	५०	२ X १.५	३	०.०२
७१	गोल्डन डोरवा	५३८	०	०	५३८	१.५ X १.५	०	०.००
७२	हंजीगा बेशमरेड	८५	०	०	८५	१.५ X १.५	२.२५	०.०२
७३	मिपरावेतिधा	१००	०	०	१००			
७४	हिरोलिया	६३	०	०	६३	१.५ X १.५	२.२५	०.०१
७५	योगस	१२	०	०	१२	१ X १	१	०.०३
७६	आसोली	३	०	०	३			
७७	कैलेडवा	२१२	०	०	२१२	१ X १	१	०.०२
७८	अकैलीपा	२३०	०	०	२३०	१ X १	१	०.०२
७९	इदल तगर	५८	०	०	५८	१ X १	१	०.०१
८०	उलगेड	४९	०	०	४९	१ X १	१	०.००
८१	सावर नर्मडी	३०	०	०	३०	१ X १	१	०.००
८२	बेबीन आस	७५	०	०	७५	१ X १	१	०.०१
८३	मंकी आस	२५	०	०	२५			
८४	केगा	५०	०	०	५०			
८५	एश्यालिका	३५०	०	०	३५०	१ X १	१	०.०४
	एकूण	२०५३	०	०	२०५३			०.१९
	एकूण एकदर	४७३७	५७०	११९५	६५०२			१९.५३

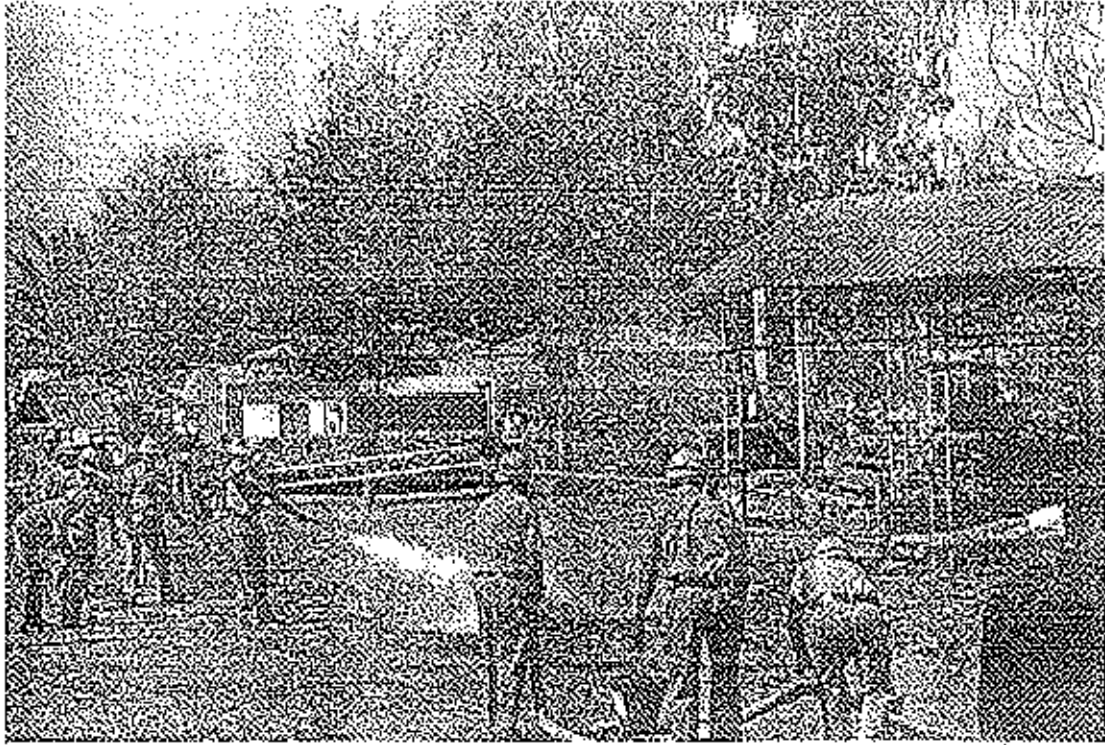
मुख्य विकास अधिकारी

मुख्य लेखाधिकारी

मुख्य लेखाधिकारी

मुख्य कृषि अधिकारी
अधिकाय (मोडेगाव), जि.पुणे







महाराष्ट्र सरकार
औद्योगिक व व्यापार विभाग

आगच्या दिवशी
वेभाग
यश
उत्पादने
सामाजिक दायित्की
शॅलरी
निविदा
अहवाल
सोतकरी पोर्टल
सैदधिक पोर्टल
करंकर

भाषा

English
Marathi

Events

सदल २४ वी अलिमंलली कार्किर गर्देसाधलल कलल सल २०२४-२०२०

सदल Over All Best Sugar factory In All India



परुलगाव विसयखेत्र

English

English
Marathi

आमच्या विषयी	^
विभाग	^
यश	
उत्पादने	
सांख्यिक उपक्रम	
गॅलरी	
करीयर	
अहवाल	^
निविदा	^
शेतकरी पोर्टल	^

19 MW Co-Gen

स्वातंत्र्य उद्योग विकास निगम

VSI आणि CSRC Pedegaon पासून सुधारित टरा भिद्याने वाण सुखटा देलील शेतकऱ्यांना वाजवी दर सेतीसाठी लागणारे ताःहिल्य म्हणजे सरास्यनिक राते, वॉटकरासके वीटकरासके सुखटा.

तसेच भाटी आणि पाची परीक्षण प्रयोगशाळा सुखटा.

19 MW Co-Gen EC Compliance Report (1st Jun 2020 to 31st Dec 2020)

45 KLPD Distillery EC Compliance (1st Jun 2020 to 31st Dec 2020)

Sugar 2500TCD To 6000TCD EC Compliance (1st Jun 2020 to 31st Dec 2020)

Akanksha Lab Report (Water,Air,Stack-Season 2019-20)

45 KLPD Distillery Environmental Clearance

Six Monthly Compliance Report 6000 TCD Sugar Unit (1 st January 2020 to 30 June 2020)

Six Monthly Compliance Report 19 MW Co-gen.(1st January 2020 to 30 June 2020)

On Line Monitoring report 2019-20

Environment Statement (1st April 2019 to 31st March 2020)

Part B (19 Mw EC Compliance -01 July 2019 to 31st Dec 2019)

5.1.1* A (15 May EC compliance -01 July 2019 to 31st Dec. 2019)
 6000 M.T. F.C. Compliance (1st July to 31 st Dec.2019) Part B
 6000 M.T. E.C. Compliance (1st July To 31st December 2019) Part A
 19 MW Co-Gen E.C. MoEF Visit Compliance Report
 MoEF Approved (Asanksha Lab) Analysis Report Season 2018-19
 6000 M.T.Environmental Clearance
 On -Line monitoring Report Season 2015-19
 6000 MT EC Compliance Jan.to Jun.2019
 19 MW Co-gen. EC Compliance Jan. to July 2019
 19 MW Co-generation Environment Clearance
 19 MW Co-generation Non compliance Report 2018-19
 Environmental Statement (Form-V) 2018-19

१.००००	१००० टना
१.००००	१००० टना
१.००००	१००० टना
१.००००	१००० टना
१.००००	१००० टना
१.००००	१००० टना
१.००००	१००० टना
१.००००	१००० टना



Bhirnashankar Sahakari Sakhar Karkhana

१.०००० टना
 १.०००० टना
 १.०००० टना
 १.०००० टना

१ २ ३ ४ ५ ६

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FORM V

Environmental Audit Report for the financial Year ending the 31st March 2020

Part A

Company Information

* Company Name Bhimashankar Sahakari Sakhar Karkhana Ltd.	* Application UAN number 0000064013	* Financial Year 2020
* Address Dattatreynagar, Pargaon Tarfe Awasari Bk.		
* Plot Number	* Taluka Ambegaon	* Village Pargaon Tarfe Awasari Vk.
* Capital Investment (in lakhs) 24243,00,000/-	* Scale Red	
* City Pargaon Tarfe Awasari Bk	* Pincode 412406	
* Person Name Mr. Chandrakant G. Dhage	* Designation Managing Director	
* Telephone Number (02133)284270	* Fax Number (02133)284270	* Email bsskkrd@gmail.com
* Region SRD - Pune II	* Industry Category Red	* Industry Type R12 Sugar (excluding khandasari)
* Last Environmental statement submitted online <input checked="" type="radio"/> No <input type="radio"/> Yes	* Consent Number Format 1.0/DO/CAC-CELL/UAN No.0000064013/C	* Consent Issue Date 23/07/2019
Consent Valid Upto 31/07/2020		

Product Information

* Product Name	* Consent Quantity	* Actual Quantity	* UOM
Sugar	129600	79573.399	MT/A

By-product Information

* By Product Name	* Consent Quantity	* Actual Quantity	* UOM
Bagasse	280800	178746.310	MT/A
Press mud	43200	22942.530	MT/A
Molasses	43200	28319.400	MT/A
Co-Generation	19 MW	60195060	kw/h

PH,Temp,Colour

	Quantity	Concentration	% variation	Standard	Reason
pH	7.5	7.0	00	5.5-9.0	-
Oil & Grease	0.06	0.06	00	10	-
BOD	95	100	00	100	-
COD	125	120	00	250	-
Total Dissolved Solids	850	950	00	2100	-
Suspended Solids	45	52	00	100	-
Sulphate	130	125	00	1000	-
Chloride	160	160	00	600	-

Add More

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (KL/day or Kg/day)	Concentration of Pollutants discharged (Mg/NM3)	Percentage of variation from prescribed standards with reasons
	Quantity	Concentration	% variation Standard Reason
SPM	115	105	00 150 -

Save

Add More

Part D

HAZARDOUS WASTES

[As specified under Hazardous Waste (Management Handling & Transboundary Movement Rules, 2008)]

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil		0.250	M ³ /A

Add More

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	00	00	M ³ /A

Add More

Part E

(A) Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
On line Monitoring System for Effluent & Stack (M)	On Line Reading Facility	2.50

[Add More](#)

(B) Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Plantation Programme	Tree Plantation	0.50

[Add More](#)

Part I

Any other particulars in respect of environmental protection and abatement of pollution

Particulars
Adopt New Technology for Air & Water pollution

Name & Designation
Mr. Chandrakant G. Dhage

NOTE: Attached file must be in pdf format and size should be upto 3MB.
Kindly attach Latest Consent copy

Choose File Existing Co...py-BSSK.pdf

Analysis report(Water & Air & Hazardous Waste) of the current year.(Analysis report from recognized laboratory by MoEF)

Choose File Akanksha La...019-20).pdf

Capcha:



Enter the code above here :

2B7A6CC2

Save

Submit Application



File No.SIA/MH/IND2/59337/2020

Government of India

State Level Environment Impact Assessment Authority

Maharashtra

To,

M/s BHIMA SHANKAR SAHAKARI SAKHAR KARKHANA LIMITED
Dattatrayanagar, P.O. Pargaon via Awasari, Taluka: Ambegaon, Dist. Pune-410406,
Pune-410406
Maharashtra

Tel.No.02133-284231; Email:bssklt@gmail.com

Sub. Terms of Reference to the Expansion of existing Distillery from 45 KLPD to 95 KLPD, Plot No. 148,206, Dattatraya Nagar, P.O. Pargaon via Awasari, Taluka: Ambegaon, Dist. Pune

Dear Sir/Madam,

This has reference to the proposal submitted in the Ministry of Environment, Forest and Climate Change to prescribe the Terms of Reference (TOR) for undertaking detailed EIA study for the purpose of obtaining Environmental Clearance in accordance with the provisions of the EIA Notification, 2006. For this purpose, the proponent had submitted online information in the prescribed format (Form-1) along with a Pre-feasibility Report. The details of the proposal are given below:

- | | |
|----------------------------------|--|
| 1. Proposal No.: | SIA/MH/IND2/59337/2020 |
| 2. Name of the Proposal: | Expansion of existing Distillery from 45 KLPD to 95 KLPD |
| 3. Category of the Proposal: | Industrial Projects - 2 |
| 4. Project/Activity applied for: | 5(g) Distilleries |
| 5. Date of submission for TOR: | 22 Dec 2020 |

Date : 24-12-2020

Manisha Patankar Mhaiskar
(Member secretary (SEIAA))

Office : Room no. 217, second floor, mantralaya Annex, madam Cama road, mumbai-32

Phone No : 284231 Mobile : 9975515600

Email id : psec.env@maharashtra.gov.in

Note : This is auto for granted letter.

STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR
PRODUCTS/ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

5(g): STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR DISTILLERIES AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

A. STANDARD TERMS OF REFERENCE

1) Executive Summary

2) Introduction

- i. Details of the EIA Consultant including NABET accreditation
- ii. Information about the project proponent
- iii. Importance and benefits of the project

3) Project Description

- i. Cost of project and time of completion.
- ii. Products with capacities for the proposed project.
- iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
- iv. List of raw materials required and their source along with mode of transportation.
- v. Other chemicals and materials required with quantities and storage capacities
- vi. Details of Emission, effluents, hazardous waste generation and their management.
- vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
- viii. Process description along with major equipments and machineries, process flow sheet (quantitative) from raw material to products to be provided
- ix. Hazard identification and details of proposed safety systems.
- x. Expansion/modernization proposals:
 - a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing/ existing operation of the project from SPCB shall be attached with the EIA-EMP report.
 - b. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification

**STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR
PROJECTS/ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE**

- ii. Landuse map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (*in case of projects involving forest land more than 40 ha*)
- iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
- iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden thereon
- v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area
- vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife

6) Environmental Status

- i. Determination of atmospheric inversion level at the project site and site-specific micro meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
- ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO₂, NO_x, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.
- iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQPM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
- iv. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
- v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
- vi. Ground water monitoring at minimum at 8 locations shall be included.
- vii. Noise levels monitoring at 8 locations within the study area.
- viii. Soil Characteristic as per CPCB guidelines.
- ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
- x. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
- xi. Socio-economic status of the study area.

**STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR
PROJECTS/ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE**

- xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

8) Occupational health

- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers
- ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) BCG, during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above mentioned parameters as per age, sex, duration of exposure and department wise.
- iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved.
- iv. Annual report of health status of workers with special reference to Occupational Health and Safety.

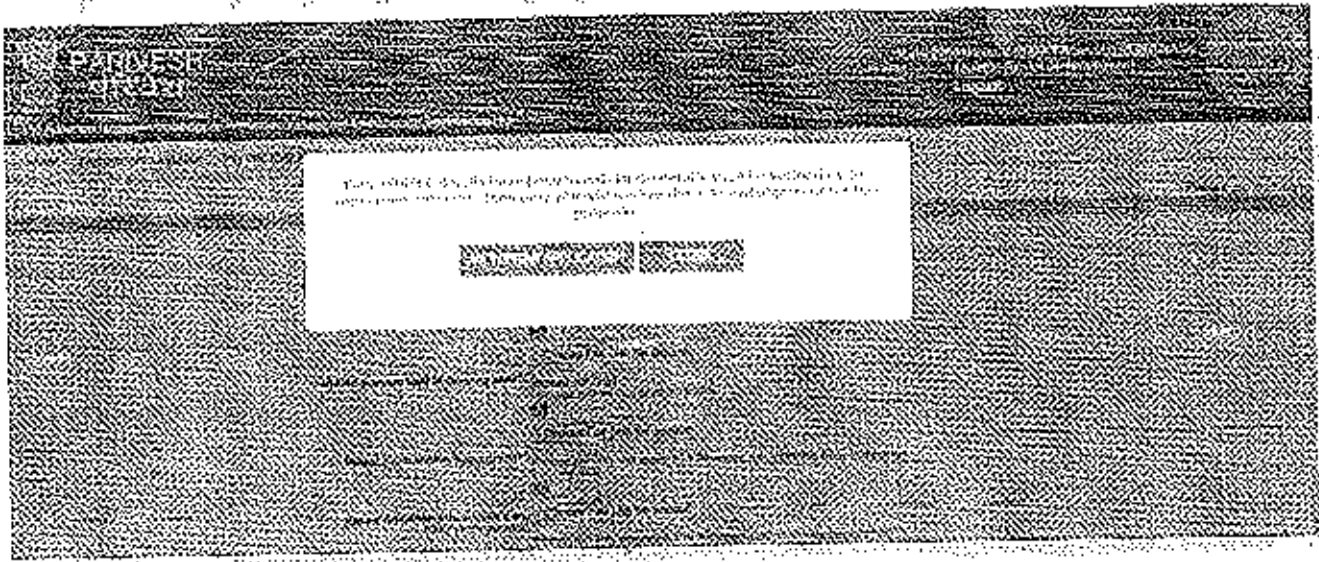
9) Corporate Environment Policy

- i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
- iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
- iv. Does the company have system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

- 10) Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.**

11) Enterprise Social Commitment (ESC)

- i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time



Thanks and Regards

Dr. Hemangi Nalavade (M.Sc., Ph.D)

Chief Consultant




MITCON Consultancy & Engineering Services Ltd.


Environment Management and Engineering Division
Behind DIC Office, Agri College Campus, Shivajinagar,

Pune 411 005, Maharashtra (INDIA),

Tel.: +91- 020-66289407, Mob. 8669966038

2 attachments

 ToR letter _ 95 KLPD.pdf
74K

 Covering letter Amendment in ToR.docx
15K

Approved ToR letter for 95.KLPD Distillery

1 message

Hemangi Nalavade <hemangi.nalavade@mitconindia.com>

Thu, Dec 31, 2020 at 4:48 PM

To: BSSK <bsskld@gmail.com>

Cc: kishor tijare <tijarekp@gmail.com>, Sandeep Jadhav <sandeep.jadhav@mitconindia.com>, Shrikant Kakade <shrikant.kakade@mitconindia.com>, Pratik Deshpande <pratik.deshpande@mitconindia.com>

Dear Sir,

PFA attached approved ToR copy for your record

As Standard ToR comes with public consultation condition we need to apply for amendment in ToR for getting exemption for public hearing. Please find attached covering letter for applying under amendment in ToR. Kindly send the signed scan copy at the earliest, so as to apply immediately.

Regards

Dr. Hemangi Nalavade

Chief Consultant

8889966038

From: Hemangi Nalavade [mailto:hemangi.nalavade@mitconindia.com]**Sent:** 22 December 2020 03:49 PM**To:** 'BSSK' <bsskld@gmail.com>**Cc:** 'kishor tijare' <tijarekp@gmail.com>; 'Sandeep Jadhav' <sandeep.jadhav@mitconindia.com>; 'Shrikant Kakade' <shrikant.kakade@mitconindia.com>; 'Pratik Deshpande' <pratik.deshpande@mitconindia.com>**Subject:** ToR application submission

Dear Sir,

ToR Application submitted successfully Please refer below screen short and attached Report Part 1 for your record.

Kindly forward the acknowledgment if received at your email ID. I request you to pay the scrutiny fees as mentioned in the earlier email so as to process our application, without scrutiny fees application will be not processed.

Acknowledgement Slip for TOR Application

1 message

monitoring-ec@nic.in <monitoring-ec@nic.in>
To: bskld@gmail.com
Cc: monitoring-ec@nic.in

Thu, Dec 24, 2020 at 11:24 AM

Acknowledgement Slip for TOR

This is to acknowledge that the proposal has been successfully uploaded on the portal of the Ministry. The proposal shall be examined in the Ministry to ensure that required information has been submitted. An email will be sent for seeking additional information, if any, within 5 working days. Once verified, an acceptance letter shall be issued to the project proponent.

Following should be mentioned in further correspondence

1. **Proposal No.** : SIA/MI/IND2/59337/2020
2. **Category of the Proposal** : Industrial Projects - 2
3. **Project/Activity applied for** : 5(g) Distilleries
4. **Name of the proposal** : Expansion of existing Distillery from 45 KLPD to 95 KLPD
5. **Date of submission for TOR** : 22 Dec 2020
6. **Name of the Project proponent along with contact details**
 - a) **Name of the proponent** : BHIMA SHANKAR SAHAKARI SAKHAR KARKHANA LIMITED
 - b) **Mobile No.** : 9975515600
 - c) **State** : Maharashtra
 - d) **District** : Pune
 - e) **Pincode** : 410406