Dattatraynagar, Pargaon Via Awasari (Bk.)
Tal : Ambegaon, Dist : Pune. 412 406
TELEFAX : (02133) 284231, 284232, 284241, 284246, 284270, 9975568130
Telegram : Bhimashankar Sugar
Email : bsskltd@gmail.com / bsskl@rediffmail.com
Website : www.bsskl.sets.co.in GSTIN : 27AAAAB0949G1ZZ

BHIMASHANKAR
SAHAKARI SAKHAR KARKHANA LTD.

Regd. No.: P.N.A / A.G.N / P.R.G.(A) S-47/1994 Dt.31/3/1994

BSSK/Mfg/ 714 /2021-22

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.- **eccompliance-mh@gov.in.**

Sub- Submission of Six Monthly EC Compliance

Ref- SEAC-2011 /CR-755/TC2 dt.30/06/2012

Dear Sir,

We are submitting herewith six monthly compliance of our 19 MW Co-generation unit. (1st Jan.2021 to 30 June 2021) for your record reference.

Thanking you.

Yours Faithfully,

(C.G. Dhage)
Managing Director.

Encl- As above

Copy to- 1) Cental Pollution Control Board,
Parivesh Bhavan, East, Arjun Nagar,
Shahadra,Delhi-110032
2) Environment Department,
15 th floor, New Administrative Building,
Madam Kama 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

Government of Maharashtra

SEAC - 2011 /CR -755 /TC2
Environment department
Room No. 217, 2nd floor,
Mantralaya Annexe,
Mumbai- 400 032.
Dated: 30th June, 2012

To,
M/s. Bhimashankar SSK,
Village Dattatraya Nagar, Pargaon,
Tal Ambegaon, Dist Pune

Sub: Environment Clearance for the Proposed Co generation power project of 19 MW capacity at Dattatraya Nagar, Pargaon, Tal Ambegaon, Dist Pune by M/s Bhimashankar Sakhari Karkhana Limited. - Environmental clearance regarding.

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee, Maharashtra in its 46th & 56th meetings and decided to recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 48th Meeting held on 26th /27th June, 2012

2. It is noted that the proposal is for grant of Environmental Clearance for Proposed 19MW Co generation power plant to be located at Dattatraya Nagar, Paragaon, Tal Ambegaon, Dist - Pune by M/s Bhimashankar Sakhar Karkhana Limited. SEAC considered the project under screening category 1(d) - B1 of EIA Notification 2006. Project proponent has submitted EIA report.

Project information from submitted & considered documents is summarized as below-

Name of the Project	:	Cogeneration Power Project of 19 MW Capacity				
Project Proponent	:	M/s. Bhimashankar Sakhar Sakhar Karkhana Limited				
Location of the project	:	Village Dattatraya Nagar, Pargaon, Tal Ambegaon, Dist Pune				
Built up area	:	18 Acres				
Project cost	:	4,446.25 Lakhs				
Raw material	:	List of raw Materials to be used	Physical and chemical nature of raw material	Quantity (tonnes/month) full production capacity	Source of material	Means of Transportation (Source to storage Site) with justification
		Bagass	Ash contain		Own	Bagasse will be transport

(Fuel)	– 1.5 - 2 % Sulphur absent or in trace Calorific value - 2,300 kcal/kg	967 TPM	sugar factory	from the yard to the furnace by bagasse handling system

Production :

Name of products, Byproducts and Intermediate Products	Existing	Proposed activity (new / modernization / expansion)	Total
Products	Existing consented capacity-MT/M	Proposed additional capacity-MT/M	Total capacity after proposed Expansion-MT/M
Sugar	14490	18000	32490
Molasses	5040	6000	11040
Bagasse	37800	52500	90300
Pressmud	5040	6000	11040

Product: Electricity Generation -19.0 MW

Total Water Requirement :

Total Water Requirement :

(i) Process : Nil
(ii) Cooling water: 810 M3/day
(iii) Boiler feed : 80 M3/day
(iv) Drinking 5 M3day
(v) Others: 5M3/day

Boiler and Steam Turbo Alternator (STG Set) :

Presently the factory is having one boiler of 37 TPH capacity working at 45 ata pressure and 445°C ± 5°C steam temperature. For a new boiler is of 80 TPH capacities at 88 Ata pressure and 515°C± 5°C steam temperature is planned to install. Operating load of the new boiler is estimate to be about 71.50 TPH during normal crushing season including the extraction of steam for process requirement, HP heater and de-aerator heating steam

ETP details :

Effluent generation: 50 m^3/day treated in ETP and reused for gardening and cooling tower make up.

Pollution control measures :

	Existing	Proposed to be installed
Air	ESP / Dust Collector	ESP
Water	ETP Consisting of primary treatment, secondary treatment.	ETP with anaerobic followed by aerobic system with sand and carbon filter.
Noise	Lubricating systems	Proposed noise friendly machines
Solid Waste	Fly ash Sale to Brick manufacturers	Fly ash Sale to Brick manufacturers

Green Belt Development	:	Green bell area: 8000 Sq. mtr. Number trees Existing:6,850 Proposed No.of trees with plant species: 2,000
Fuel Requirement	:	Bagasse – For season - 1074 MT/day During Off season: 305 MT/day.
Environmental Management Plan	:	

Sr. No		Recurring Cost per annum	Capital Cost
1	Air Pollution Control	1.0	275.00
2	Water Pollution Control	1.5	--------
3	Noise Pollution Control	--------	--------
4	Environment Monitoring and Management	0.5	
5	Reclamation borrow/mined area		
6	Occupational Health	1.0	
7	Green Belt	0.5	5.00
8	Solid waste management	0.5	
9	Others (Pl. Specify) ▪ Fire Protection	1.0	20.00
Total		6.0	300:00

3. The proposal has been considered by SEIAA in its 48th meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions :

(i) Project proponent should take immediate measures to reduce the ambient SPM value due to existing activity as per MPCB directives.

(ii) No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.

(iii) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.

(iv) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.

(v) Regular monitoring of the air quality, Including SPM & SO2 levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.

(vi) Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.

(vii) Proper House keeping programmes shall be implemented.

(viii) 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 achieve.

(ix) A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set.(If applicable)

(x) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.

(xi) Arrangement shall be made that effluent and storm water does not get mixed.

(xii) Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board..

(xiii) Leq of 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.

(xiv) The overall noise levels in and around the plant are 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 confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.

(xv) 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 DFO/ Agriculture Dept.

(xvi) 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.

(xvii) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.

(xviii) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.

(xix) 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 collections/treatment/storage/disposal of hazardous wastes.

(xx) The company shall undertake following Waste Minimization Measures :

- Metering of quantities of active ingredients to minimize waste.
- Reuse of by- products from the process as raw materials or as raw material substitutes in other process.
- Maximizing Recoveries.
- Use of automated material transfer system to minimize spillage..

(xxi) 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.

(xxii) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.

(xxiii) Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.

(xxiv) Separate silos will be provided for collecting and storing bottom ash and fly ash.

(xxv) Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-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

(xxvi) 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://ec.maharashtra.gov.in

(xxvii) 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.

(xxviii) 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.

(xxix) 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 criteria pollutant levels namely; SPM, RSPM. SO_2, NOx (ambient levels as well as stack emissions) or critical sectorai 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.

(xxx) 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.

(xxxi) 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.

(xxxii) The environmental clearance is being issued without prejudice to the 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 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.

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. The Environment department reserves the right 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.

6. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 5 years to start of power plant.

7. 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.

8. 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.

9. Any appeal against this environmental clearance shall lie with the National Green Tribunal , Van Vigyan Bhawan, Sec- 5, R.K. Puram, New Dehli – 110 022, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010

(Valsa R Nair Singh)
Secretary,Environment
department & MS, SEIAA

Copy to:

1. Shri. P.M.A Hakeem, IAS (Retd.), Chairman, SEIAA, 'Jugnu' Kottaram Road, Calicut- 673 006 Kerla.
2. Shri. Dr. S. Devotta, Chairman, SEAC, T2/302 Sky City, Vanagaram –Ambattur Road, Chennai – 600 095
3. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
4. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).
5. Regional Office, MPCB, Pune.
6. Collector, Pune.
7. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.
8. Director (TC-1), Dy. Secretary (TC-2), Scientist-I, Environment department.
9. Select file (TC-3).

6

SIX MONTHLY COMPLIANCE REPORT

Part-I

DATA SHEET

No.		
1	**Project Type:** River Valley/Mining/Industry/Thermal/Nuclear/Others (Specify)	Industry
2	**Name of the Project**	Bhimashankar Sahakari Sakhar Karkhana Ltd.Dattatrayanagar,Pargaon Tarfe Awasari Bk.,Tal_Ambegaon Dist-Pune Pin- 412406
3	**Clearance letter(S)/OM No.and Date**	SEAC-2011/CR-755/TC2 Date 30/06/2012
4	**Location**a) 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 Correspondace**	
	a) Address of the Managing Director(with Pin code/Telephone/Telex/Fax/Numbers)	Mr. Chandrakant G. Dhage Bhimashankar Sahakari Sakhar Karkhana Ltd.Dattatrayanagar,Pargaon Tarfe Awasari Bk.,Tal_Ambegaon Dist-Pune Pin- 412406
	b)Address of the Managing Director(with Pin code/Telephone/Telex/Fax/Numbers)	
6	**Salient Features**	
	a) of the Project	This Sugar 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**	
	a) Submergence area : Forest & Non Forest	N.A.
	b) Others	Plot area -586796 m^2 Total Built up area- 72844 m^2
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)	

9 (a)	**Financial Details:** Project cost as originally planned and subsequent revised estimates and the year of price reference	Total Project Cost- 4461.250 Lakhs.
(b)	Allocation made for environmental management plans with item wise and year wise breakup	O & M cost/ Year- 300.00 Lakhs
c)	Benefit cost ratio / Internal rate of Return and the year of assessment	8 years
d)	Whether (c) includes the cost of environmental management as shown in the above	300.000Lakhs
e)	Actual expenditure incurred on the project so far	4461.250 Lakhs
f)	Actual expenditure incurred on the environmental management plans so far	300.00 Lakhs
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)	Actual
a)	Date of commencement (Actual & / or Planned)	June 2012.
b)	Date of completion (Actual & / or Planned)	October 2013.
13	Reasons for the delay if the project is yet to start	N.A.
14	**Dates of the site visits-**	Nil
a)	The dates on which the project was monitored by the	
b)	Date of site visit for this monitoring report	Nil
15	Details of correspondace with project authorities for obatining action plan/information on status of complainee to safeguards other than the routine letters for logistics support for site visit.	There is no plant expansion. No alternation or addition.No show cause or notices of pollution department.We are regularly monitoring both air & water data as per CPCB guidelines & parameters are within limit.

K. P. Rao
(Process Manager)
Bhimashankar Sahakari Sakhar Karkhana Ltd.
Vallatrayanagar, Pargaon Via - Awasari K
Tal.Ambegaon, Dist.Pune - 412 405

ANNEXURE - 2

EC COMPLIANCE CONDITIONS

Sr.No	Condition	Compliance Status
i	Project proponent should take immediate measures to reduce the ambient SPM value due to existing activity as per MPCB directives.	Stack Height for 37 TPH Boiler -60 mtrs. & 80 TPH Boiler -72 mtrs.We have provided ESP to 80 TPH boiler & Wet scrubber for 37 TPH boiler & Ambient SPM is within limit given by MPCB.(Photograph, Monitoring & OCMS are enclosed - Ann.I)
ii	No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.	No land development or any construction is done & in future also we will not entertain any activity without MPCB permission.
iii	No additional land shall be used/acquired for an 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.
iv	For controlling fugitive natural dust,regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the shall be ensured.	For dust control we have provided.ESP& wet scubber,for Boiler & Dust cature in sugar house.Further we regularly sprinkle water by spray nozzle fitted to tanker to control dust in the factory permises.(Photograph is enclosed & reports attached. Ann II.)
v	Regular monitoring of the air quality,including SPM & SO2 levels both in work zone and ambient air shall be carried out in and around the records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.	We are monitoring air & water pollution data regularly by OCMS & online data is submitted to CPCB & reports to MPCB. (Report & photographs is enclosed-Ann.III)
vi	Necessary arrangement shall be made adequate safety and ventilation arrangement in furnace area.	We have made provision for proper ventilation system in the process area.(Photographs is enclosed Ann.IV)
vii	Proper House keeping pro grammes shall be implemented.	We regularly maintain the proper house keeping.
viii	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 achieve .	After failure of pollution control device,We immediately stop the Boiler operation & restart after activation of polltuion controlling device.We intimate both CPCB & MPCB time to time by mail in this regard without any delay.

ix	A Stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set.(If applicable)	Appx. 15 mtrs stack height is given for existing 500 KVA D.G.set.
x	A detailed scheme for rain water harvesting shall be prepared and implemented to recharge ground water.	*Factory building & offices roof rain water is collected by down take pipes in campus water body. (Details of Construction of Rain harvesting structure is enclosed.Ann.V)
xi	Arrangement shall be made that effluent and storm water does not get mixed.	We have proper drainge for storm water & effluent & there is no mixing of waste water & storm water.
xii	Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in quality of water. Results shall be submitted to the Maharashtra Pollution Control Board.	Ground water within 5 Km radius ground karkhana is checked,found ok.Reports are attached. (Ann.VI)
xiii	Leq of 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.	*Noise proof cabnis are provided to operators wherever is possible *The air compressor,process air blower,pneumatic valves are kept in the closed cabis. * Noise level -- within limit. (Report Attached-VII)
xiv	The overall noise levels in and around the plant are 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 confirm to the standards prescribed under Environment (Protection) Act.1986 Rules,1989.	* Noise controlling measures are as per EMP are taken including tree barriers. * Noise level is within standard limits & we are agree with the same for future also.
xv	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 DFO / Agriculture Dept.	* We have planted on 19.52 heactres factory land.. *For bio-diversity ,appx. 25 number of species are planted. *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 suggestionss,if any. (Photographs & List enclosed.AnnVIII)

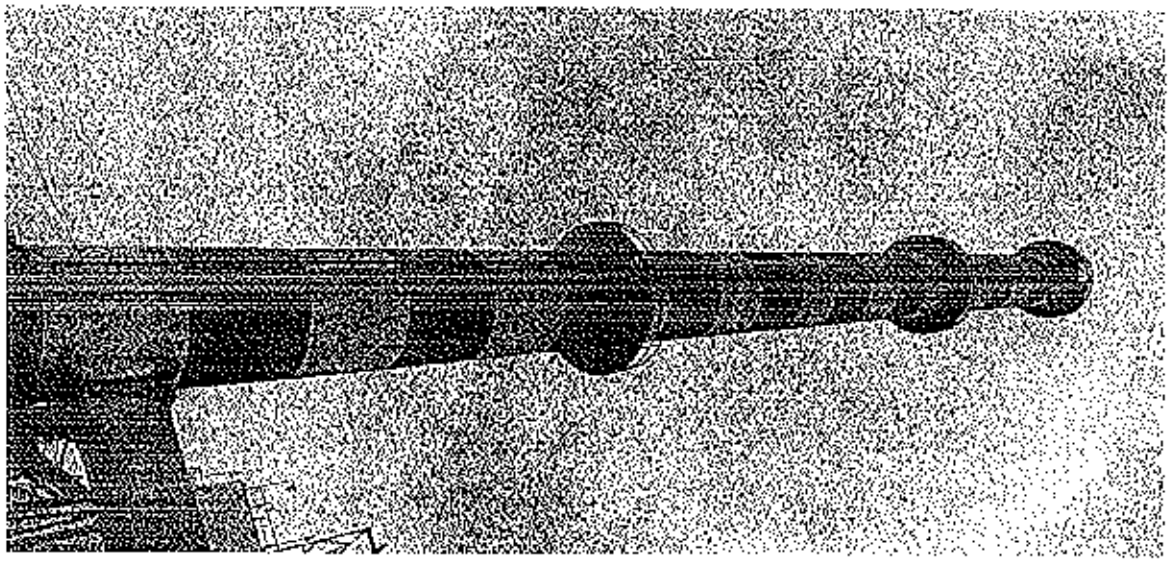
xvi	Adequate safety measures shall be provided to limit the risk zone within the plant boundary,in case of an accident. Leak detection devices shall be installed at strategic places for early detection and warning.	*Adequate safety measures are provided.
xvii	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.	*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 organised for all employees. Employees are regularly examined and the medical records is maintained for each employee. *All precautionary measures are adopted by the company to reduce the risk of employees for occupational safety and health hazardous.(Photographs Attached- IX)
xviii	The company shall make the arrangement for protection of possible fire hazardous during manufacturing processes in the material handling.	*The system is provided as per guidelines of DISH. *This is regularly inspected by Factory Inspectors during visit. *Hydrant System ,High velocity water spray system,medium velocity water system,Foam systemPortable and mobile fire extinguishrs etc. are different types of fire protection /dection syselm are installed in the plant.
xix	The project authorities must strictly comply with the rules & regulations with regard to handling and disposal of hazardous waste in accordance with the Hazardous Waste (Management and Handling) Rules,2003(amended).Authorization from the MPCB shall be obtained for collections/treatment/storage /disposal of hazardous wastes.	We are regularly follow guidelines given by MPCB .

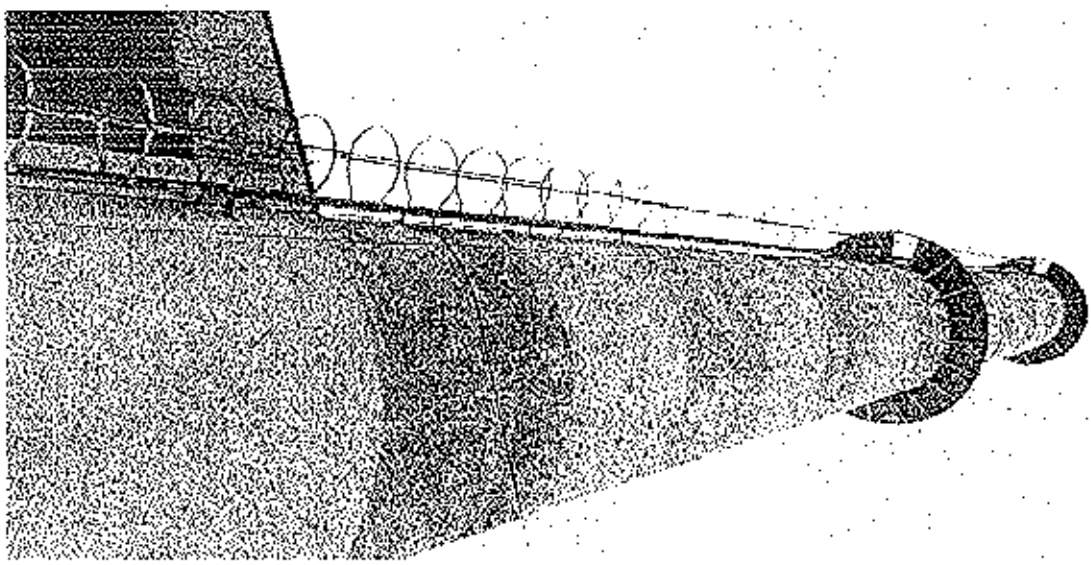
xx	The company shall undertake following Waste Minimization Measures: Metering of quantites of active ingredients to minimize wastes. Reuse of by-products from the process as raw materials or as raw material substitutes in other process.Maximizing Recoveries. Use of automated material transfer system to minimize spillage.	We have minimised the waste water generation by proper monitoring & Reuse of condensate water by cooling in cooling towers.(ETP Outlet report attached &OCMS reprt Attached) (Ann.III)
xxi	Regular mock drills for the on site emergency management plans shall be carried out. Implementation of changes / improvement required,if any,in the on site management plans shall be ensured.	We arrange regularly. It is part of our routine pracise.(Photographs Attached X)
xxii	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 experiance more than 10 years. *Environment Management cell - Environment Officer-(M.Sc.(Env.Sci.)-1 No. ETP Chemist(B.Sc.)-3 Nos. ETP operators (12 th) - 7 Nos. *For additional work he has an approach to MoEF approved laboratory and NABET approved FAE. for quidance & trainings.
xxiii	Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.	Transportation of ash is always carried out in closed tractors.
xxiv	Separate silos will be provided for collecting and storing bottom ash and fly ash.	Provided separate silos & ash collection sand filters for the collection & storage of bottom ash & fly ash. *Ash generated from the co-gen plant is used for compost.
xxv	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environmental protection measures shall not be diverted for other purposes and year-wise expendture should reported to the MPCB & this department.	*We have received the EC in 2012 and all the basic works required to fulfill the condotions are alredy completed. * We utilized Rs.300.00Lakhs for capital investment on environment as specified in EMP. * Management is very committed for the same. * The funds earmarked for Environment are not diverted to any other acoount head. * We have made 16 lakhs provision for the operational expenditure of EMP for the current year.

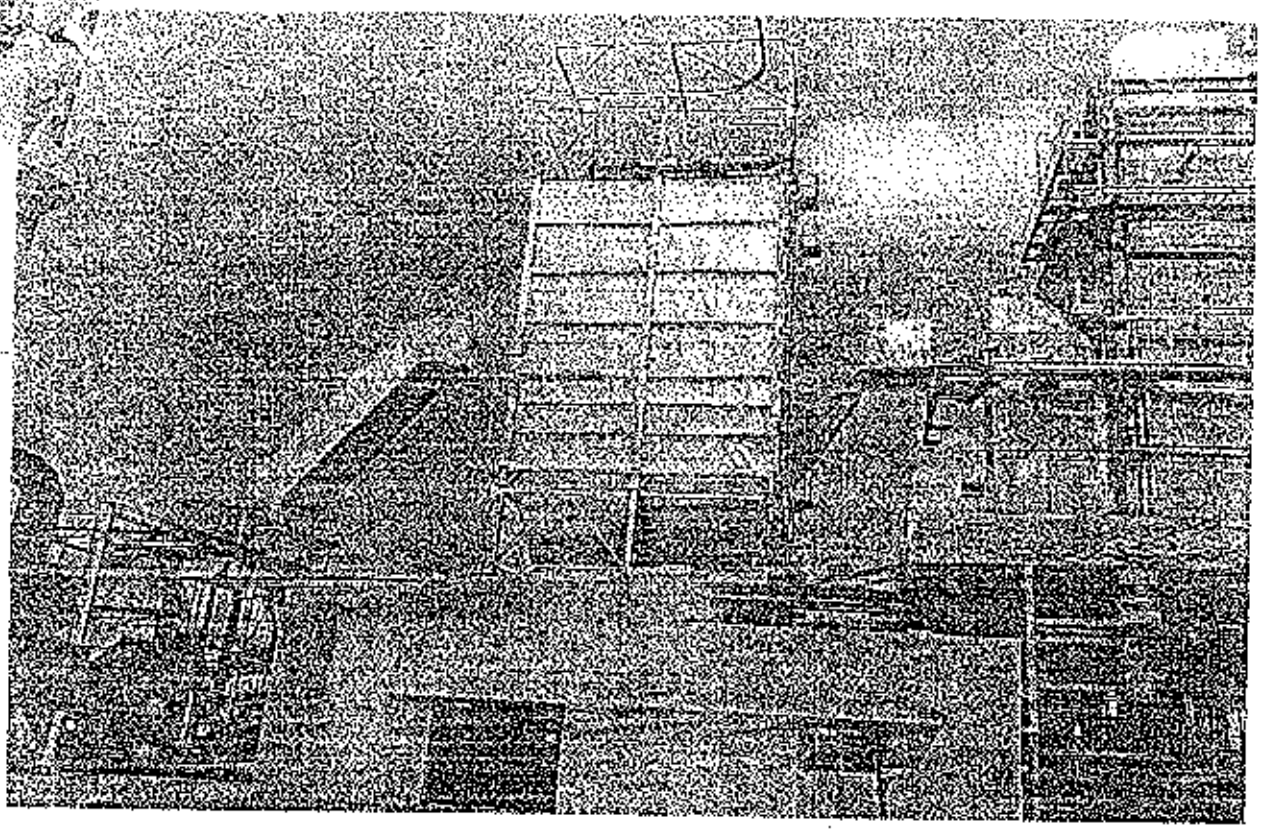
xxvi	The project management shall advertise at least in two local newpapers widely circulated in the region around the project,one of which shall be in the marathi language of the local concerned within seven days of issue of this letter,informing that the project has been accorded environmental clearance and copies of clearance letter are avaliable with the Maharashtra Pollution Control Board and may also be seen at Website at	Karkhana were published advertise in local newpapers - 1) Pudhari(English) -13 July 2012 2) Sakal (Marathi) - 14 July 2012 (Ann.XI)
xxvii	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 1 st June & 1st December of each calender year.	Regularly Submitted.(Website Screenshot Attached Ann.XII)
xxviii	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.	*Complinace of EC granted by MoEF is conveyed to local authority,MPCB,villagers,NGO and is already displayed on gate .
xxix	The proponent shall upload the 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 criteria pollutant levels namely; SPM, RSPM,So2, Nox (ambient levels as well as stack emissions) or critical	Regularly Submitted.
xxx	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 CPCB and the SPCB.	*We have uploaded lastest complaince report of conditions stipulated in the Environmental clearance along with analytical reports. *Half yearly complaince report are submitted twice since 2012.

xxxii	The environmental statement for each financial year ending 31 st march in Form-V 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 send to the respective Regional Offices of MoEF by e-mail.	*We are already submitting the annual,statuatory Environmental statement in Form V every year to MPCB. *In future we shall also endorse a copy each to CPCB and MoEF RO Office& upload it on web site. *The latest recent annual,statutory Environmetal statement on Form V is enclosed herewith. (Ann. XIII)
xxxii	The environmental clearance is being issued without prejudice to the 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 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.	There is no any environmental issues & cases regarding pollution.

K. P. Tijare
(Process Manager)
Bhimashankar Sahakari Sakhar Karkhana Ltd
Dattatrayanagar, Pargaon Via - Awasari Bk
Tal.Ambegaon, Dist.Pune - 412 406







November-2020

EnviroConnect Forbes Marshall Multi Station Report

From Date	01/11/2020 00:00
To Date	30/11/2020 23:59
Interval	Daily
Function	Average
Plant	BSSK
Analyzer	STACK1
Parameter	PM
Unit	mg/Nm3
Limit	0.00 - 150.00

17/11/2020 00:00	60 < M
18/11/2020 00:00	60 M
19/11/2020 00:00	60 M
20/11/2020 00:00	60 M
21/11/2020 00:00	60 M
22/11/2020 00:00	60 M
23/11/2020 00:00	60 M
24/11/2020 00:00	60 M
25/11/2020 00:00	60 M
26/11/2020 00:00	60 M
27/11/2020 00:00	60 M
28/11/2020 00:00	60 M
29/11/2020 00:00	60 M
30/11/2020 00:00	60 M
Average	60
Geom.Mean	60
Maximum	60
Median	60
Minimum	60
Mode	60
Std.Deviation	0
Total Active Duration	

EnviroConnect Forbes Marshall Multi Station Report

From Date	01/11/2020 00:00
To Date	30/11/2020 23:59
Interval	Daily
Function	Average

Plant	BSSK
Analyzer	STACK2
Parameter	PM
Unit	mg/Nm3
Limit	0.00 - 150.00

17/11/2020 00:00	90.64	< M
18/11/2020 00:00	90.98	< M
19/11/2020 00:00	73.25	< M
20/11/2020 00:00	72	M
21/11/2020 00:00	72	M
22/11/2020 00:00	72	M
23/11/2020 00:00	72	M
24/11/2020 00:00	72	M
25/11/2020 00:00	72	M
26/11/2020 00:00	72	M
27/11/2020 00:00	72	M
28/11/2020 00:00	72	M
29/11/2020 00:00	72	M
30/11/2020 00:00	72	M
Average	74.8	
Geom.Mean	74.5	
Maximum	91	
Median	72	
Minimum	72	
Mode	72	
Std.Deviation	6.8	
Total Active Duration		

December - 2020

EnviroConnect Forbes Marshall Multi Station Report

From Date	01/12/2020 00:00
To Date	31/12/2020 23:59
Interval	Daily
Function	Average
Plant	BSSK
Analyzer	STACK1
Parameter	PM
Unit	mg/Nm3
Limit	0.00 - 150.00

01/12/2020 00:00	60 < M
02/12/2020 00:00	60 M
03/12/2020 00:00	60 M
04/12/2020 00:00	60 M
05/12/2020 00:00	60 M
06/12/2020 00:00	60 M
07/12/2020 00:00	60 M
08/12/2020 00:00	60 M
09/12/2020 00:00	60 M
10/12/2020 00:00	60 M
11/12/2020 00:00	60 M
12/12/2020 00:00	60 M
13/12/2020 00:00	60 M
14/12/2020 00:00	59.94 M
15/12/2020 00:00	60 M
16/12/2020 00:00	60 M
17/12/2020 00:00	60 M
18/12/2020 00:00	60 M
19/12/2020 00:00	60 M
20/12/2020 00:00	60 M
21/12/2020 00:00	60 M
22/12/2020 00:00	60 M
23/12/2020 00:00	59.98 M
24/12/2020 00:00	60 M
25/12/2020 00:00	60 M
26/12/2020 00:00	60 M
27/12/2020 00:00	60 M
28/12/2020 00:00	60 M
29/12/2020 00:00	60 M
30/12/2020 00:00	60 M
31/12/2020 00:00	60 M
Average	60
Geom.Mean	60
Maximum	60
Median	60
Minimum	59.9
Mode	60
Std.Deviation	0

EnviroConnect Forbes Marshall Multi Station Report

From Date	01/12/2020 00:00
To Date	31/12/2020 23:59
Interval	Daily
Function	Average

Plant	BSSK
Analyzer	STACK2
Parameter	PM
Unit	mg/Nm3
Limit	0.00 - 150.00

01/12/2020 00:00	72	M
02/12/2020 00:00	72	M
03/12/2020 00:00	72	M
04/12/2020 00:00	72	M
05/12/2020 00:00	72	M
06/12/2020 00:00	72	M
07/12/2020 00:00	72	M
08/12/2020 00:00	72	M
09/12/2020 00:00	72	M
10/12/2020 00:00	72	M
11/12/2020 00:00	72	M
12/12/2020 00:00	72	M
13/12/2020 00:00	72	M
14/12/2020 00:00	72	M
15/12/2020 00:00	72	M
16/12/2020 00:00	72	M
17/12/2020 00:00	72	M
18/12/2020 00:00	72	M
19/12/2020 00:00	72	M
20/12/2020 00:00	72	M
21/12/2020 00:00	72	M
22/12/2020 00:00	72	M
23/12/2020 00:00	72	M
24/12/2020 00:00	72	M
25/12/2020 00:00	72	M
26/12/2020 00:00	72	M
27/12/2020 00:00	72	M
28/12/2020 00:00	72	M
29/12/2020 00:00	72	M
30/12/2020 00:00	72	M
31/12/2020 00:00	72	M
Average	72	
Geom.Mean	72	
Maximum	72	
Median	72	
Minimum	72	
Mode	72	
Std.Deviation	0	

January-2021

EnviroConnect Forbes Marshall Multi Station Report

From Date	01/01/2021 00:00
To Date	31/01/2021 23:59
Interval	Daily
Function	Average
Plant	BSSK
Analyzer	STACK1
Parameter	PM
Unit	mg/Nm3
Limit	0.00 - 150.00

01/01/2021 00:00	60 M
02/01/2021 00:00	60 M
03/01/2021 00:00	60 M
04/01/2021 00:00	60 M
05/01/2021 00:00	60 M
06/01/2021 00:00	60 M
07/01/2021 00:00	60 M
08/01/2021 00:00	60 M
09/01/2021 00:00	60 M
10/01/2021 00:00	60 M
11/01/2021 00:00	60 M
12/01/2021 00:00	60
13/01/2021 00:00	60 M
14/01/2021 00:00	60
15/01/2021 00:00	60 M
16/01/2021 00:00	60
17/01/2021 00:00	60
18/01/2021 00:00	60
19/01/2021 00:00	60
20/01/2021 00:00	60 M
21/01/2021 00:00	51.5 M
22/01/2021 00:00	60 M
23/01/2021 00:00	60
24/01/2021 00:00	60
25/01/2021 00:00	60
26/01/2021 00:00	60
27/01/2021 00:00	60 M
28/01/2021 00:00	60 M
29/01/2021 00:00	60 M
30/01/2021 00:00	60 < M
31/01/2021 00:00	60 < M
Average	59.7
Geom.Mean	59.7
Maximum	60
Median	60
Minimum	51.5
Mode	60
Std.Deviation	1.5

EnviroConnect Forbes Marshall Multi Station Report

From Date	01/01/2021 00:00
To Date	31/01/2021 23:59
Interval	Daily
Function	Average

Plant	BSSK
Analyzer	STACK2
Parameter	PM
Unit	mg/Nm3
Limit	0.00 - 150.00

01/01/2021 00:00	72 M
02/01/2021 00:00	72 M
03/01/2021 00:00	72 M
04/01/2021 00:00	72 M
05/01/2021 00:00	72 M
06/01/2021 00:00	72 M
07/01/2021 00:00	72 M
08/01/2021 00:00	72 M
09/01/2021 00:00	72 M
10/01/2021 00:00	72 M
11/01/2021 00:00	72 M
12/01/2021 00:00	72 M
13/01/2021 00:00	72 M
14/01/2021 00:00	72 M
15/01/2021 00:00	72 M
16/01/2021 00:00	72 < M
17/01/2021 00:00	71.92 < M
18/01/2021 00:00	72 M
19/01/2021 00:00	72 M
20/01/2021 00:00	72 M
21/01/2021 00:00	61.64 M
22/01/2021 00:00	66.92 M
23/01/2021 00:00	72 M
24/01/2021 00:00	72 M
25/01/2021 00:00	72 M
26/01/2021 00:00	72 M
27/01/2021 00:00	72 M
28/01/2021 00:00	72 M
29/01/2021 00:00	72 M
30/01/2021 00:00	72 < M
31/01/2021 00:00	72 < M
Average	71.5
Geom.Mean	71.5
Maximum	72
Median	72
Minimum	61.6
Mode	72
Std.Deviation	2

2.2

February-2021

EnviroConnect Forbes Marshall Multi Station Report

From Date	01/02/2021 00:00
To Date	28/02/2021 23:59
Interval	Daily
Function	Average

Plant	BSSK
Analyzer	STACK1
Parameter	PM
Unit	mg/Nm3
Limit	0.00 - 150.00

01/02/2021 00:00	60 M
02/02/2021 00:00	60 M
03/02/2021 00:00	60 M
04/02/2021 00:00	60 M
05/02/2021 00:00	60 M
06/02/2021 00:00	60 M
07/02/2021 00:00	60 M
08/02/2021 00:00	60 < M
09/02/2021 00:00	60 M
10/02/2021 00:00	59.95 < M
11/02/2021 00:00	60 < M
12/02/2021 00:00	60 M
13/02/2021 00:00	60 M
14/02/2021 00:00	60 M
15/02/2021 00:00	60 M
16/02/2021 00:00	60 M
17/02/2021 00:00	60 M
18/02/2021 00:00	60 M
19/02/2021 00:00	60 M
20/02/2021 00:00	60 M
21/02/2021 00:00	60 M
22/02/2021 00:00	60 M
23/02/2021 00:00	60 M
24/02/2021 00:00	60 M
25/02/2021 00:00	60 M
26/02/2021 00:00	60 M
27/02/2021 00:00	60 M
28/02/2021 00:00	60 M
Average	60
Geom.Mean	60
Maximum	60
Median	60
Minimum	59.9
Mode	60
Std.Deviation	0
Total Active Duration	

EnviroConnect Forbes Marshall Multi Station Report

From Date	01/02/2021 00:00
To Date	28/02/2021 23:59
Interval	Daily
Function	Average

Plant	BSSK
Analyzer	STACK2
Parameter	PM
Unit	mg/Nm3
Limit	0.00 - 150.00

01/02/2021 00:00	72 M
02/02/2021 00:00	72 M
03/02/2021 00:00	71.92 M
04/02/2021 00:00	72 M
05/02/2021 00:00	72 M
06/02/2021 00:00	71.93 < M
07/02/2021 00:00	72 M
08/02/2021 00:00	72 M
09/02/2021 00:00	72 M
10/02/2021 00:00	72 M
11/02/2021 00:00	72 < M
12/02/2021 00:00	72 M
13/02/2021 00:00	72 M
14/02/2021 00:00	72 M
15/02/2021 00:00	71.95 M
16/02/2021 00:00	72 M
17/02/2021 00:00	72 M
18/02/2021 00:00	72 M
19/02/2021 00:00	72 M
20/02/2021 00:00	72 M
21/02/2021 00:00	72 M
22/02/2021 00:00	72 M
23/02/2021 00:00	72 M
24/02/2021 00:00	72 M
25/02/2021 00:00	72 M
26/02/2021 00:00	72 M
27/02/2021 00:00	72 M
28/02/2021 00:00	72 M
Average	72
Geom.Mean	72
Maximum	72
Median	72
Minimum	71.9
Mode	72
Std.Deviation	0
Total Active Duration	

March-2021

EnviroConnect Forbes Marshall Multi Station Report

From Date	01/03/2021 00:00
To Date	31/03/2021 23:59
Interval	Daily
Function	Average

Plant	BSSK
Analyzer	STACK1
Parameter	PM
Unit	mg/Nm3
Limit	0.00 - 150.00

01/03/2021 00:00	60 M
02/03/2021 00:00	60 M
03/03/2021 00:00	49.44 M
04/03/2021 00:00	56.76
05/03/2021 00:00	60
06/03/2021 00:00	60 M
07/03/2021 00:00	60 M
08/03/2021 00:00	60 M
09/03/2021 00:00	60 M
10/03/2021 00:00	60 M
11/03/2021 00:00	60 M
12/03/2021 00:00	60 M
13/03/2021 00:00	60 M
14/03/2021 00:00	60 M
15/03/2021 00:00	60 M
16/03/2021 00:00	60 M
17/03/2021 00:00	60 M
18/03/2021 00:00	60 M
19/03/2021 00:00	60 < M
20/03/2021 00:00	60 M
21/03/2021 00:00	60 M
22/03/2021 00:00	60 M
23/03/2021 00:00	60 M
24/03/2021 00:00	60 < M
25/03/2021 00:00	60 M
26/03/2021 00:00	60 M
27/03/2021 00:00	60 M
28/03/2021 00:00	60 M
29/03/2021 00:00	59.96 M
30/03/2021 00:00	60 M
31/03/2021 00:00	60 M
Average	59.6
Geom.Mean	59.5
Maximum	60
Median	60
Minimum	49.4
Mode	60
Std.Deviation	2

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/03/2021 00:00
To Date 31/03/2021 23:59
Interval Daily
Function Average

Plant BSSK
Analyzer STACK2
Parameter PM
Unit mg/Nm3
Limit 0.00 - 150.00

01/03/2021 00:00	72 M
02/03/2021 00:00	72 M
03/03/2021 00:00	56.96 M
04/03/2021 00:00	67.87 M
05/03/2021 00:00	72 < M
06/03/2021 00:00	72 M
07/03/2021 00:00	72 M
08/03/2021 00:00	72 M
09/03/2021 00:00	72 M
10/03/2021 00:00	72 M
11/03/2021 00:00	72 < M
12/03/2021 00:00	72 M
13/03/2021 00:00	72 M
14/03/2021 00:00	72 M
15/03/2021 00:00	72 M
16/03/2021 00:00	71.92 M
17/03/2021 00:00	72 M
18/03/2021 00:00	71.95 M
19/03/2021 00:00	72 < M
20/03/2021 00:00	72 < M
21/03/2021 00:00	71.97 M
22/03/2021 00:00	72 M
23/03/2021 00:00	71.92 M
24/03/2021 00:00	72 < M
25/03/2021 00:00	72 M
26/03/2021 00:00	72 M
27/03/2021 00:00	72 M
28/03/2021 00:00	72 M
29/03/2021 00:00	72 M
30/03/2021 00:00	72 M
31/03/2021 00:00	72 < M
Average	71.4
Geom.Mean	71.3
Maximum	72
Median	72
Minimum	57
Mode	72
Std.Deviation	2.8

26

April-2021

EnviroConnect Forbes Marshall Multi Station Report

From Date	01/04/2021 00:00
To Date	30/04/2021 23:59
Interval	Daily
Function	Average
Plant	BSSK
Analyzer	STACK1
Parameter	PM
Unit	mg/Nm3
Limit	0.00 - 150.00

01/04/2021 00:00	60 M
02/04/2021 00:00	60 M
03/04/2021 00:00	60 M
04/04/2021 00:00	60 M
05/04/2021 00:00	60 M
06/04/2021 00:00	60 M
07/04/2021 00:00	60 M
08/04/2021 00:00	60 M
09/04/2021 00:00	60 M
10/04/2021 00:00	60 M
11/04/2021 00:00	60 M
12/04/2021 00:00	60 M
13/04/2021 00:00	60 M
14/04/2021 00:00	60 M
15/04/2021 00:00	60 M
16/04/2021 00:00	60 M
17/04/2021 00:00	60 M
18/04/2021 00:00	60 M
19/04/2021 00:00	60 M
20/04/2021 00:00	60 M
21/04/2021 00:00	59.94 M
22/04/2021 00:00	60 M
23/04/2021 00:00	60 M
24/04/2021 00:00	60 M
25/04/2021 00:00	60 M
26/04/2021 00:00	60 M
27/04/2021 00:00	60 M
28/04/2021 00:00	60 M
29/04/2021 00:00	60 M
30/04/2021 00:00	60 M
Average	60
Geom.Mean	60
Maximum	60
Median	60
Minimum	59.9
Mode	60
Std.Deviation	0
Total Active Duration	

EnviroConnect Forbes Marshall Multi Station Report

From Date	01/04/2021 00:00
To Date	30/04/2021 23:59
Interval	Daily
Function	Average

Plant	BSSK
Analyzer	STACK2
Parameter	PM
Unit	mg/Nm3
Limit	0.00 - 150.00

01/04/2021 00:00	72	< M
02/04/2021 00:00	72	M
03/04/2021 00:00	71.92	M
04/04/2021 00:00	72	M
05/04/2021 00:00	72	M
06/04/2021 00:00	72	M
07/04/2021 00:00	72	M
08/04/2021 00:00	72	M
09/04/2021 00:00	72	M
10/04/2021 00:00	72	M
11/04/2021 00:00	72	M
12/04/2021 00:00	72	M
13/04/2021 00:00	72	M
14/04/2021 00:00	72	< M
15/04/2021 00:00	72	M
16/04/2021 00:00	71.97	M
17/04/2021 00:00	72	M
18/04/2021 00:00	72	M
19/04/2021 00:00	72	M
20/04/2021 00:00	72	M
21/04/2021 00:00	71.95	M
22/04/2021 00:00	72	M
23/04/2021 00:00	72	M
24/04/2021 00:00	72	M
25/04/2021 00:00	72	M
26/04/2021 00:00	72	M
27/04/2021 00:00	72	M
28/04/2021 00:00	72	M
29/04/2021 00:00	72	M
30/04/2021 00:00	72	M
Average	72	
Geom.Mean	72	
Maximum	72	
Median	72	
Minimum	71.9	
Mode	72	
Std.Deviation	0	
Total Active Duration		

May-2021

EnviroConnect Forbes Marshall Multi Station Report

From Date	01/05/2021 00:00
To Date	31/05/2021 23:59
Interval	Daily
Function	Average

Plant	BSSK
Analyzer	STACK1
Parameter	PM
Unit	mg/Nm3
Limit	0.00 - 150.00

01/05/2021 00:00	60	M
02/05/2021 00:00	60	M
03/05/2021 00:00	60	M
04/05/2021 00:00	60	M
05/05/2021 00:00	60	M
06/05/2021 00:00	60	M
07/05/2021 00:00	60	M
08/05/2021 00:00	60	M
09/05/2021 00:00	60	M
10/05/2021 00:00	60 <	M
Average	60	
Geom.Mean	60	
Maximum	60	
Median	60	
Minimum	60	
Mode	60	
Std.Deviation	0	
Total Active Duration		

EnviroConnect Forbes Marshall Multi Station Report

From Date	01/05/2021 00:00
To Date	31/05/2021 23:59
Interval	Daily
Function	Average

Plant	BSSK
Analyzer	STACK2
Parameter	PM
Unit	mg/Nm3
Limit	0.00 - 150.00

01/05/2021 00:00	72		M
02/05/2021 00:00	71.97		M
03/05/2021 00:00	72	<	M
04/05/2021 00:00	72		M
05/05/2021 00:00	72		M
06/05/2021 00:00	72	<	M
07/05/2021 00:00	72		M
08/05/2021 00:00	71.83	<	M
09/05/2021 00:00	71.96	<	M
10/05/2021 00:00	72	<	M
Average	72		
Geom.Mean	72		
Maximum	72		
Median	72		
Minimum	71.8		
Mode	72		
Std.Deviation	0.1		
Total Active Duration			

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

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING

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/57-293/20-21
		Report Date	07/12/2020
		Inward No	AL/6-855/01/20-21
		Inward Date	28/11/2020
Sample Location	East Side- Near Dnyaneshwar Dhobale (Mauli) House	**Sampling Time**	11:00 AM
Sample Collected By	AARL	**Time duration**	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	48	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	10.27	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_x)	µg/m³	15.03	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	59.30	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	20.42	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	19.36	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	00.98	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. -Not Specified**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

AKANKSHA ANALYTICAL & RESEARCH LAB

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			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/57-294/20-21
		Report Date	07/12/2020
		Inward No	AL/6-855/02/20-21
		Inward Date	28/11/2020
Sample Location	West side-Near Nivrutti Dhobale house	Sampling Time	11:40 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.1	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	46	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	12.03	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_X)	µg/m³	09.57	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	66.58	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	17.62	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	18.05	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	00.84	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. -Not Specified**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | **Phone :** 020-24240030 | **Email :** akankshalab2007@gmail.com

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			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/57-295/20-21
		Report Date	07/12/2020
		Inward No	AL/6-855/03/20-21
		Inward Date	28/11/2020
Sample Location	South Side- Near Yogesh Pingale house	Sampling Time	11:15 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.5	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	42	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	10.06	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_x)	µg/m³	10.27	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	56.17	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	16.93	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	17.22	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	00.81	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. –Not Specified**

Verified by
(Analyst)

Authorized Signatory

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Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | **Phone :** 020-24240030 | **Email :** akankshalab2007@gmail.com

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			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/57-296/20-21
		Report Date	07/12/2020
		Inward No	AL/6-855/04/20-21
		Inward Date	28/11/2020
Sample Location	North side-Near Shingave fata hotel	Sampling Time	11:30 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	33.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	41	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	15.96	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_x)	µg/m³	17.03	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	66.02	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	17.03	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	16.98	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part 22):2004
9.	Carbon Monoxide (CO)	mg/m³	00.99	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. –Not Specified**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | **Phone :** 020-24240030 | **Email :** akankshalab2007@gmail.com

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING

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/57-297/20-21
Report Date	07/12/2020
Inward No	AL/6-855/05/20-21
Inward Date	28/11/2020
Sampling Time	12:00 PM
Time duration	08 Hr
Sample Location	Near Main Gate (Company Premises)
Sample Collected By	AARL

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	34.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	42	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	18.67	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_X)	µg/m³	15.04	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	65.12	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	20.82	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	18.01	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	01.23	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. -Not Specified**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING

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/57-936/20-21
Report Date	08/01/2021
Inward No	AL/6-905/ 01/20-21
Inward Date	30/12/2020
Sampling Time	11:00 AM
Time duration	08 Hr
Sample Location	South East Colony Area
Sample Collected By	AARL

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	58	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	10.34	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_x)	µg/m³	15.21	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	57.56	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	20.65	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	18.12	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	01.05	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. -Not Specified**

Verified by
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING

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/57-937/20-21
		Report Date	08/01/2021
		Inward No	AL/6-905/02/20-21
		Inward Date	30/12/2020
Sample Location	South West side-Ramakant Jadhav	**Sampling Time**	11:20 AM
Sample Collected By	AARL	**Time duration**	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	50	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	12.31	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_x)	µg/m³	09.88	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	63.25	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	17.89	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	18.41	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	00.94	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. –Not Specified**

Verified by
(Analyst)

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING

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/57-938/20-21
Report Date	08/01/2021
Inward No	AL/6-905/03/20-21
Inward Date	30/12/2020
Sampling Time	11:35 AM
Time duration	08 Hr

Sample Location	North East -Vittal Dhobale
Sample Collected By	AARL

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	50	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	12.13	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_X)	µg/m³	14.54	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	49.63	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	16.71	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	17.98	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	00.96	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. –Not Specified**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING

NAME OF COMPANY:-
M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.
Dattatraynagar, Pargaon,
Village-Awasari Bk., Tal. - Ambegaon,Dist. – Pune-412 406

Sample Location	North west – Taniskha Hotel / Lowns	**Report No**	AL/TR/57-939/20-21
Sample Collected By	AARL	**Report Date**	08/01/2021
		Inward No	AL/6-905/04/20-21
		Inward Date	30/12/2020
		Sampling Time	11:50 AM
		Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	31.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	51	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	16.22	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_X)	µg/m³	18.31	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	64.57	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	18.63	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	17.21	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	01.14	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. –Not Specified**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			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/57-940/20-21
		Report Date	08/01/2021
		Inward No	AL/6-905/05/20-21
		Inward Date	30/12/2020
Sample Location	Kata Gate (Company Premises)	Sampling Time	12:00 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	49	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	18.79	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_X)	µg/m³	15.34	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	79.23	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	25.45	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	18.36	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	01.41	< 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. –Not Specified**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | **Phone :** 020-24240030 | **Email :** akankshalab2007@gmail.com

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

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING

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/58-231/20-21
Report Date	04/02/2021
Inward No	AL/6-929/01/20-21
Inward Date	25/01/2021
Sampling Time	10:00AM
Time duration	08 Hr
Sample Location	South East Colony Area
Sample Collected By	AARL

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	55	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	10.41	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_X)	µg/m³	15.29	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	57.67	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	20.78	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	18.31	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	01.12	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. –Not Specified**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

AKANKSHA ANALYTICAL & RESEARCH LAB

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING

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/58-232/20-21
Report Date	04/02/2021
Inward No	AL/6-929/02/20-21
Inward Date	25/01/2021
Sampling Time	10:10AM
Time duration	08 Hr
Sample Location	South West side-Ramakant Jadhav
Sample Collected By	AARL

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	55	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	12.39	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_x)	µg/m³	09.96	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	63.64	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	18.21	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	18.56	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	01.05	≤ 04	IS:5182(Part 10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. –Not Specified**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING

NAME OF COMPANY:-
M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.
Dattatraynagar, Pargaon,
Village-Awasari Bk., Tal. -Ambegaon, Dist. - Pune-412 406

Sample Location	North East –VittalDhobale
Sample Collected By	AARL
Report No	AL/TR/58-233/20-2
Report Date	04/02/2021
Inward No	AL/6-929/03/20-21
Inward Date	25/01/2021
Sampling Time	10:15AM
Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	52	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	12.23	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_X)	µg/m³	14.69	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	49.81	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	16.86	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	17.91	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	01.08	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. -Not Specified**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING

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/58-234/20-21
Report Date	04/02/2021
Inward No	AL/6-929/04/20-21
Inward Date	25/01/2021
Sampling Time	10:20AM
Time duration	08 Hr

Sample Location	North west Pingle Suresh
Sample Collected By	AARL

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	52	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	16.10	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_x)	µg/m³	18.25	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	64.47	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	18.54	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	17.62	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	01.21	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. –Not Specified**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | **Phone :** 020-24240030 | **Email :** akankshalab2007@gmail.com

AKANKSHA ANALYTICAL & RESEARCH LAB

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING

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/58-235/20-21
Report Date	04/02/2021
Inward No	AL/6-929/05/20-21
Inward Date	25/01/2021
Sampling Time	10:30 PM
Time duration	08 Hr

Sample Location	Main Gate (Company Premises)
Sample Collected By	AARL

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	49	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	18.81	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_x)	µg/m³	15.78	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	70.23	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	24.36	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	18.44	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	01.46	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. -Not Specified**

Aishwarya

Verified by
(Analyst)

Authorized Signatory

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | **Phone :** 020-24240030 | **Email :** akankshalab2007@gmail.com

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			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/58-589/20-21
		Report Date	03/03/2021
		Inward No	AL/6-960/01/20-21
		Inward Date	22/02/2021
Sample Location	East Side- Mr. Ramesh Gaikwad	Sampling Time	10:50 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	50	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	10.31	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_X)	µg/m³	15.14	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	59.68	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	20.36	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	19.23	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	01.05	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. –Not Specified**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

AKANKSHA ANALYTICAL & RESEARCH LAB

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING

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/58-590/20-21
		Report Date	03/03/2021
		Inward No	AL/6-960/02/20-21
		Inward Date	22/02/2021
Sample Location	West side-Mr.Balasaheb Dhobale	Sampling Time	11:15 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	47	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	12.28	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_x)	µg/m³	09.67	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	58.78	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	17.69	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	18.17	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	00.91	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. –Not Specified**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | **Phone :** 020-24240030 | **Email :** akankshalab2007@gmail.com

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AKANKSHA ANALYTICAL & RESEARCH LAB

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING

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/58-591/20-21
Report Date	03/03/2021
Inward No	AL/6-960/03/20-21
Inward Date	22/02/2021
Sampling Time	11:40 AM
Time duration	08 Hr
Sample Location	South Side- Mr. Ramdas Chavan
Sample Collected By	AARL

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	44	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	10.23	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_x)	µg/m³	10.32	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	56.47	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	16.98	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	17.34	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	00.86	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling 3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. –Not Specified**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

AKANKSHA ANALYTICAL & RESEARCH LAB

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			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/58-592/20-21
		Report Date	03/03/2021
		Inward No	AL/6-960/04/20-21
		Inward Date	22/02/2021
Sample Location	North side-Mr.Gorakh Dhaytadak	Sampling Time	12:00 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	44	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	16.02	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_x)	µg/m³	17.31	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	56.22	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	17.15	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	16.89	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	01.06	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-.

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. -Not Specified**

Verified by
(Analyst)

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...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | **Phone :** 020-24240030 | **Email :** akankshalab2007@gmail.com

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			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/58-593/20-21
		Report Date	03/03/2021
		Inward No	AL/6-960/05/20-21
		Inward Date	22/02/2021
Sample Location	Near Main Gate (Company Premises)	Sampling Time	10:30 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	20	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	18.78	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_x)	µg/m³	15.19	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	68.56	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	20.91	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	18.05	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	01.32	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. -Not Specified**

Verified by
(Analyst)

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			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/59-235/21-22
		Report Date	05/04/2021
		Inward No	AL/7-20/01/21-22
		Inward Date	28/03/2021
Sample Location	East Side- Shri. Mauli Shete	Sampling Time	10:50 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	34	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	10.41	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_X)	µg/m³	15.22	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	57.84	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	19.63	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	19.07	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	01.18	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. –Not Specified**

Verified by
(Analyst)

Authorized Signatory

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			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/59-236/21-22
		Report Date	05/04/2021
		Inward No	AL/7-20/02/21-22
		Inward Date	28/03/2021
Sample Location	West side-Karkhana Petrol Pump	Sampling Time	11:15 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	29	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	16.32	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_x)	µg/m³	12.58	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	59.85	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	17.67	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	18.15	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	00.96	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. –Not Specified**

Verified by
(Analyst)

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...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | **Phone :** 020-24240030 | **Email :** akankshalab2007@gmail.com

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			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/59-238/21-22
		Report Date	05/04/2021
		Inward No	AL/7-20/04/21-22
		Inward Date	28/03/2021
Sample Location	South Side- Karkhana jack Well	Sampling Time	12:00 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	27	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	10.33	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_x)	µg/m³	10.41	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	52.36	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	17.12	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	17.89	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	00.94	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. –Not Specified**

Akshay

Verified by
(Analyst)

Authorized Signatory

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			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/59-237/21-22
		Report Date	05/04/2021
		Inward No	AL/7-20/03/21-22
		Inward Date	28/03/2021
Sample Location	North side- Karkhana Kopi Yard	Sampling Time	11:35 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	29	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	18.84	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_X)	µg/m³	15.71	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	68.47	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	24.22	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	18.35	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	01.49	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. –Not Specified**

Verified by
(Analyst)

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...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | **Phone** : 020-24240030 | **Email** : akankshalab2007@gmail.com

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			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/59-239/21-22
		Report Date	05/04/2021
		Inward No	AL/7-20/05/21-22
		Inward Date	28/03/2021
Sample Location	Kata Gate (Company Premises)	Sampling Time	12:25 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
15.	Ambient Temperature	°C	34.0	N.S.	EPA -454/R-99-005
16.	Relative Humidity	% rh	27	N.S.	EPA -454/R-99-005
17.	Sulphur Dioxide (SO_2)	µg/m³	19.23	≤ 80	IS:5182(Part-2):2001
18.	Oxides of Nitrogen (NO_x)	µg/m³	15.65	≤ 80	IS:5182(Part-6):2006
19.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	79.89	≤ 100	IS:5182(Part-23):2006
20.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	26.32	≤ 60	IS:5182(Part-23):2006
21.	Ozone (O_3)	µg/m³	18.41	≤ 180	IS:5182(Part-9):1974
22.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
23.	Carbon Monoxide (CO)	mg/m³	01.53	≤ 04	IS:5182(Part-10):1999
24.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
25.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
26.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
27.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
28.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. –Not Specified**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | **Phone** : 020-24240030 | **Email** : akankshalab2007@gmail.com

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1
NAME OF COMPANY:-	**Report No**	AL/TR/59-467/21-22
M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.	**Report Date**	30/04/2021
Dattatraynagar, Pargaon,	**Inward No**	AL/7-39/04/21-22
Village-Awasari Bk , Tal. - Ambegaon,Dist. - Pune 412 406	**Inward Date**	27/04/2021
Sample Location : South west – Taniskha Hotel	**Sampling Time**	02-15 PM
Sample Collected By : AARL	**Time duration**	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	34.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	23	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	16.31	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_x)	µg/m³	18.48	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	64.81	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	18.73	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	17.32	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	01.19	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401, (Indophenols method) Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. –Not Specified**

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			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/59-466/21-22
		Report Date	30/04/2021
		Inward No	AL/7-39/03/21-22
		Inward Date	22/04/2021
Sample Location	South East - Mr. Prashant Asware	Sampling Time	01:50 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	34.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	23	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	10.29	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_x)	µg/m³	10.38	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	56.74	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	17.07	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	17.41	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	00.92	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. –Not Specified**

Authorized Signatory

...End of test report...

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING

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/59-465/21-22
Report Date	30/04/2021
Inward No	AL/7-39/02/21-22
Inward Date	22/04/2021
Sampling Time	01:30 PM
Time duration	08 Hr

Sample Location	North West side- Mr. Nanasaheb Dhobale
Sample Collected By	AARL

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	34.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	23	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	12.17	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_x)	µg/m³	09.68	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	66.75	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	17.69	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	17.96	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	00.89	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. –Not Specified**

Authorized Signatory

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Dhayari, Pune 411041. | Phone : 020-24240550 | Email : akanksharlab2007@gmail.com

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Date 7/5/2021

AKANKSHA ANALYTICAL & RESEARCH LAB

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

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			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/59-464/21-22
		Report Date	30/04/2021
		Inward No	AL/7-39/01/21-22
		Inward Date	22/04/2021
Sample Location	North East –Mr. Yogesh Dhobale	Sampling Time	01:15 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	34.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	23	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	12.19	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_x)	µg/m³	14.64	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	49.87	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	16.86	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	17.91	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	01.08	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401.(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. –Not Specified**

Authorized Signatory

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | Phone : 020-24240030 | Email : akankshalab2007@gmail.com

AKANKSHA ANALYTICAL & RESEARCH LAB

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatrayanagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon,Dist. – Pune-412 406		Report No	AE/TR/59-468/21-22
		Report Date	30/04/2021
		Inward No	AL/T-39/05/21-22
		Inward Date	22/04/2021
Sample Location	Main Gate (Company Premises)	Sampling Time	02:40 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	34.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	23	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO_2)	µg/m³	18.89	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO_x)	µg/m³	15.82	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	70.56	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	24.41	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O_3)	µg/m³	18.52	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m³	01.58	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH_3)	µg/m³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3rd Edition
11.	Benzene (C_6H_6)	µg/m³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m³	BDL	≤ 20	IS:3025 (PART-54) 2003

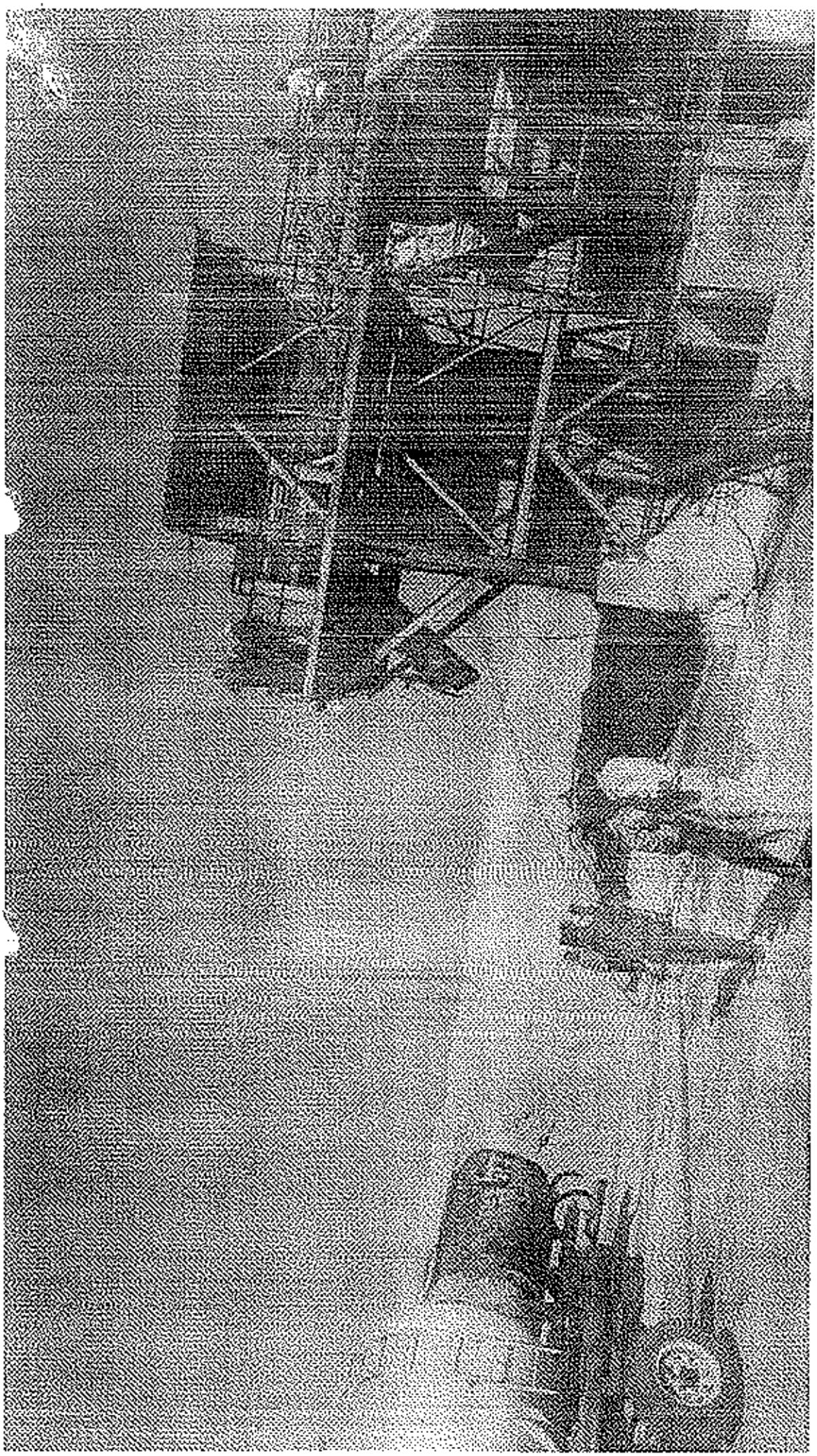
REMARK,OPINION & INTERPRITATION-

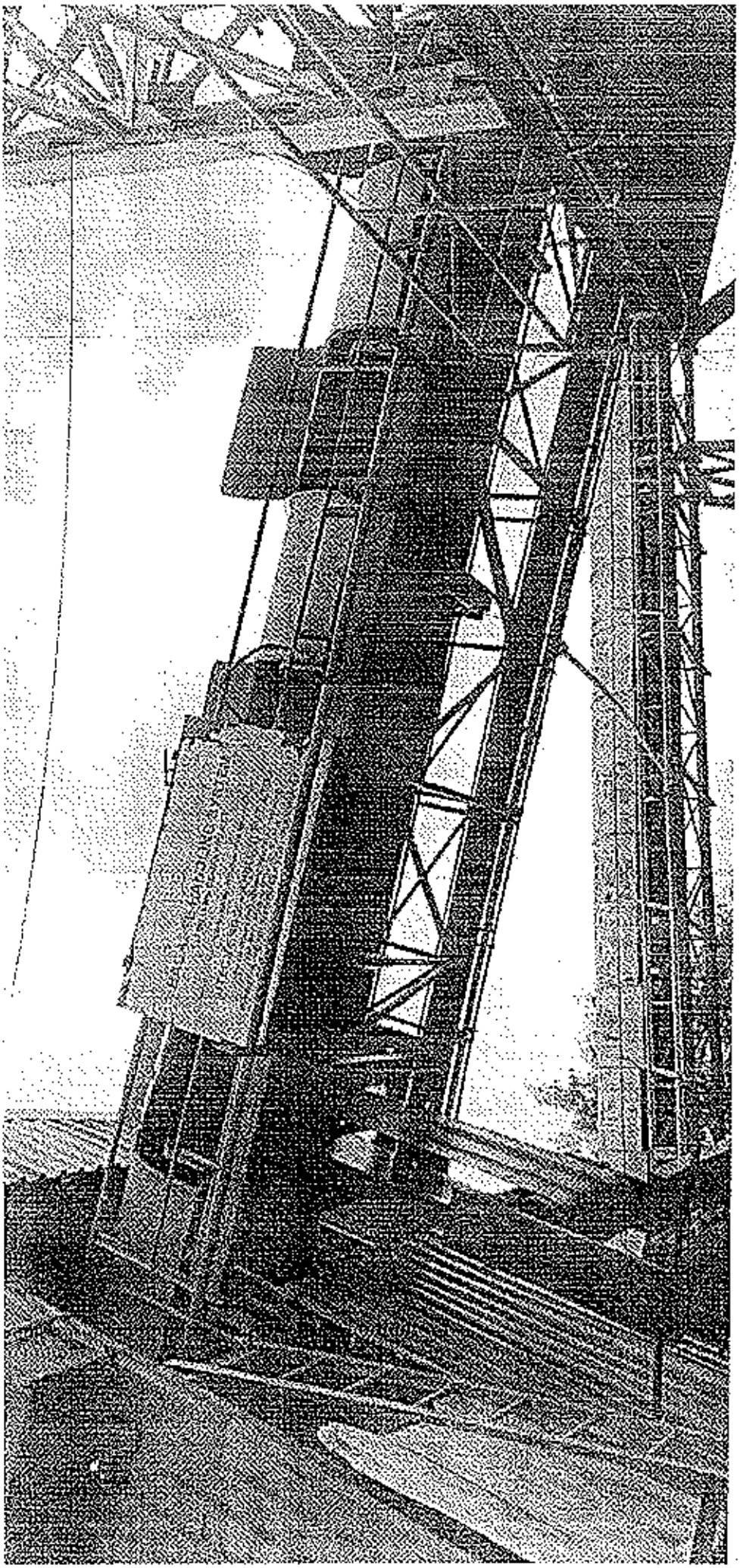
- **All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.**
- **BDL-Below Detectable Limit.**
- **N.S. -Not Specified**

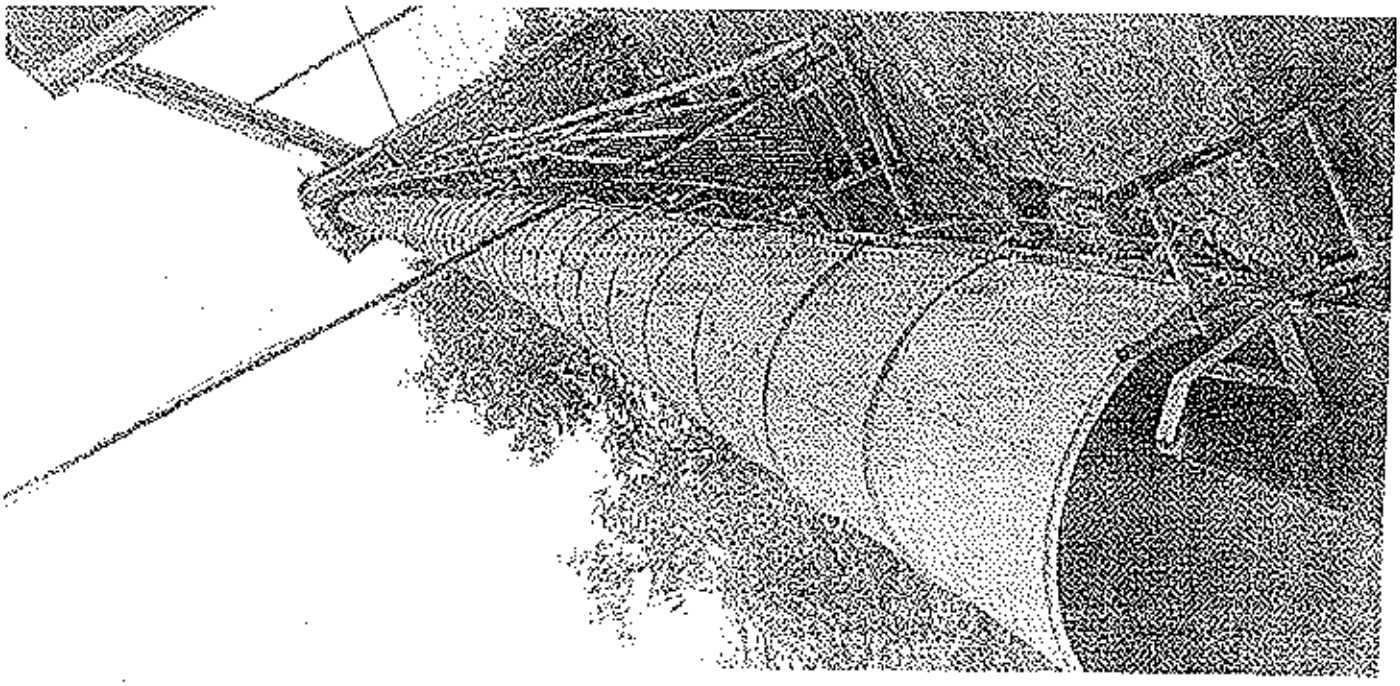
Authorized Signatory

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 4, Gangadham Phase-1, Opp. Canna Dhandarik Row House-9, Sibewadi, Pune 411037. | Phone : 020-24240030 | Email : akankshalab2007@gmail.com







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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING

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/57-298/20-21
		Report Date	07/12/2020
		Inward No	AL/6-855/06/20-21
		Inward Date	28/11/2020
Sample Location	Near Bags Baling Fugitive Sample	**Sampling Time**	12:15 PM
Sample Collected By	AARL	**Time duration**	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	METHOD
1.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	82.03	IS:5182(Part-23):2006
2.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	24.11	IS:5182(Part-23):2006

Verified by
(Analyst)

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...End of test report...

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SOURCE EMISSION MONITORING REPORT

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/57-299/20-21
Report Date	07/12/2020
Inward No	AL/6-855/07/20-21
Inward Date	28/11/2020
Sampling Time	01:30 PM
Time duration	30 Min

Sample Location	Old Boiler (37 T/hr)
Sample Collected By	AARL

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A.	**Stack Details**				
1.	Material of stack	--	MS	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	60.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	04.00	N.S.	--
6.	Stack area	m^2	12.56	N.S.	--
B.	**Parameters**				
7.	Flue Gas Temperature	°C	140.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	04.86	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	08.50	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	$Nm^3/hr.$	277543.29	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm^3	118.0	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	59.78	≤2880	IS 11255 (PART 2):1985
13.	Oxide of Nitrogen	mg/Nm^3	119.36	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2854.17	N.S.	IS 13270 :1992

REMARK, OPINION & INTERPRITATION-

- **All above results are within limits as per MPCB Consent.**
- **BDL-Below Detectable Limit.**
- **N.S. – Not Specified**

Verified by
(Analyst)

Authorized Signatory

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SOURCE EMISSION MONITORING REPORT			Page 1 of 1
NAME OF COMPANY:-		**Report No**	AL/TR/57-300/20-21
M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.		**Report Date**	07/12/2020
Dattatraynagar, Pargaon,		**Inward No**	AL/6-855/08/20-21
Village-Awasari Bk., Tal. - Ambegaon,Dist. – Pune-412 406		**Inward Date**	28/11/2020
Sample Location	New Boiler (80 T/hr)	**Sampling Time**	02:00 PM
Sample Collected By	AARL	**Time duration**	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A.	**Stack Details**				
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	72.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	03.54	N.S.	--
6.	Stack area	m^2	12.56	N.S.	--
B.	**Parameters**				
7.	Flue Gas Temperature	$^{\circ}C$	121.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	01.52	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	04.64	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm^3/hr.	158913.68	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm^3	128.15	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	1584.36	≤3120	IS 11255 (PART 2): 1985
13.	Oxide of Nitrogen	mg/Nm^3	321.00	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2947.50	N.S.	IS 13270 :1992

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per MPCB Consent.**
- **BDL-Below Detectable Limit.**
- **N.S. – Not Specified**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

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SOURCE EMISSION MONITORING REPORT

NAME OF COMPANY:-
M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.
Dattatraynagar, Pargaon,
Village-Awasari Bk., Tal. - Ambegaon,Dist. - Pune-412 406

Sample Location	Old Boiler (37 T/hr)
Sample Collected By	AARL

Report No	AL/TR/57-942/20-21
Report Date	08/01/2021
Inward No	AL/6-905/07/20-21
Inward Date	30/12/2020
Sampling Time	01:45 PM
Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A.	**Stack Details**				
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	60.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	04.00	N.S.	--
6.	Stack area	m^2	12.56	N.S.	--
B.	**Parameters**				
7.	Flue Gas Temperature	°C	115.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	04.00	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.48	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm^3/hr.	259777.63	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm^3	120.1	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	59.81	≤2880	IS 11255 (PART 2):1985
13.	Oxide of Nitrogen	mg/Nm^3	120.13	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2867.21	N.S.	IS 13270 :1992

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per MPCB Consent.**
- **BDL-Below Detectable Limit.**
- **N.S. – Not Specified**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | **Phone :** 020-24240030 | **Email :** akankshalab2007@gmail.com

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SOURCE EMISSION 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/57-943/20-21
		Report Date	08/01/2021
		Inward No	AL/6-905/08/20-21
		Inward Date	30/12/2020
Sample Location	New Boiler (80 T/hr)	Sampling Time	01:00 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A.	Stack Details				
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	72.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	03.54	N.S.	--
6.	Stack area	m^2	09.83	N.S.	--
B.	Parameters				
7.	Flue Gas Temperature	°C	120.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	02.50	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	05.95	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	$Nm^3/hr.$	159826.17	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm^3	128.15	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	1584.36	≤3120	IS 11255 (PART 2): 1985
13.	Oxide of Nitrogen	mg/Nm^3	321.00	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2947.50	N.S.	IS 13270 :1992

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per MPCB Consent.**
- **BDL-Below Detectable Limit.**
- **N.S. – Not Specified**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING

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/57-941/20-21
Report Date	08/01/2021
Inward No	AL/6-905/06/20-21
Inward Date	30/12/2020
Sampling Time	12:30 PM
Time duration	08 Hr

Sample Location	Near Sugar Godawan Fugitive Sample
Sample Collected By	AARL

SR.NO.	PARAMETER	UNIT	RESULT	METHOD
1.	Particulate matter-PM_{10} (less than 10 micron)	$\mu g/m^3$	62.13	IS:5182(Part-23):2006
2.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	$\mu g/m^3$	22.42	IS:5182(Part-23):2006

Verified by
(Analyst)

Authorized Signatory

...End of test report...

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SOURCE EMISSION MONITORING REPORT

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/58-237/20-21
Report Date	04/02/2021
Inward No	AL/6-929/07/20-21
Inward Date	25/01/2021
Sampling Time	02:00 PM
Time duration	30 Min
Sample Location	Old Boiler (37 T/hr)
Sample Collected By	AARL

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A.	**Stack Details**				
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	60.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	04.00	N.S.	--
6.	Stack area	m^2	12.56	N.S.	--
B.	**Parameters**				
7.	Flue Gas Temperature	°C	132.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	04.12	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.75	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	$Nm^3/hr.$	258052.88	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm^3	115.93	< 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	76.52	≤2880	IS 11255 (PART 2):1985
13.	Oxide of Nitrogen	mg/Nm^3	119.52	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2798.13	N.S.	IS 13270 :1992

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per MPCB Consent.**
- **BDL-Below Detectable Limit.**
- **N.S. – Not Specified**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

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SOURCE EMISSION MONITORING REPORT			Page 1 of 1
NAME OF COMPANY:-		**Report No**	AL/TR/58-230/20-21
M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.		**Report Date**	04/02/2021
Dattatraynagar, Pargaon,		**Inward No**	AL/6-929/08/20-21
Village-Awasari Bk., Tal. - Ambegaon,Dist. – Pune-412 406		**Inward Date**	25/01/2021
Sample Location	New Boiler (80T/hr)	**Sampling Time**	02:30 PM
Sample Collected By	AARL	**Time duration**	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A.	**Stack Details**				
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	72.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	03.54	N.S.	--
6.	Stack area	m^2	09.83	N.S.	--
B.	**Parameters**				
7.	Flue Gas Temperature	°C	141.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	03.15	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	06.85	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	$Nm^3/hr.$	174795.10	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm^3	131.11	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	1483.01	≤3120	IS 11255 (PART 2): 1985
13.	Oxide of Nitrogen	mg/Nm^3	302.16	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2869.88	N.S.	IS 13270 :1992

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per MPCB Consent.**
- **BDL-Below Detectable Limit.**
- **N.S. – Not Specified**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

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- ISO 45001 : 2018 Certified Organization

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING

NAME OF COMPANY:-		**Report No**	AL/TR/58-236/20-21
M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.		**Report Date**	04/02/2021
Dattatraynagar, Pargaon,		**Inward No**	AL/6-929/06/20-21
Village-Awasari Bk., Tal. - Ambegaon,Dist. – Pune-412 406		**Inward Date**	25/01/2021
Sample Location	Near Boiler Fugitive Sample	**Sampling Time**	12:35 PM
Sample Collected By	AARL	**Time duration**	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	METHOD
1.	Particulate matter-PM_{10} (less than 10 micron)	$\mu g/m^3$	73.92	IS:5182(Part-23):2006
2.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	$\mu g/m^3$	25.01	IS:5182(Part-23):2006

Verified by
(Analyst)

Authorized Signatory

...End of test report...

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- ISO 45001 : 2018 Certified Organization

SOURCE EMISSION MONITORING REPORT

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/58-595/20-21
		Report Date	03/03/2021
		Inward No	AL/6-960/07/20-21
		Inward Date	22/02/2021
Sample Location	Old Boiler (37 T/hr)	**Sampling Time**	02:00 PM
Sample Collected By	AARL	**Time duration**	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A.	**Stack Details**				
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	60.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	04.00	N.S.	--
6.	Stack area	m^2	12.56	N.S.	--
B.	**Parameters**				
7.	Flue Gas Temperature	°C	143.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	04.24	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.97	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm^3/hr	258299.69	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm^3	116.38	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	76.81	≤2880	IS 11255 (PART 2):1985
13.	Oxide of Nitrogen	mg/Nm^3	123.83	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2801.94	N.S.	IS 13270 :1992

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per MPCB Consent.**
- **BDL-Below Detectable Limit.**
- **N.S. – Not Specified**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

AKANKSHA ANALYTICAL & RESEARCH LAB

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- ISO 45001 : 2018 Certified Organization

SOURCE EMISSION MONITORING REPORT

NAME OF COMPANY:-		**Report No**	AL/TR/58-596/20-21
M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.		**Report Date**	03/03/2021
Dattatraynagar, Pargaon,		**Inward No**	AL/6-960/08/20-21
Village-Awasari Bk., Tal. - Ambegaon,Dist. - Pune-412 406		**Inward Date**	22/02/2021
Sample Location	New Boiler (80T/hr)	**Sampling Time**	02:40 PM
Sample Collected By	AARL	**Time duration**	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A.	**Stack Details**				
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	72.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	03.54	N.S.	--
6.	Stack area	m^2	09.83	N.S.	--
B.	**Parameters**				
7.	Flue Gas Temperature	° C	158.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	03.21	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.06	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	$Nm^3/hr.$	172937.05	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm^3	132.31	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	1494.02	≤3120	IS 11255 (PART 2): 1985
13.	Oxide of Nitrogen	mg/Nm^3	314.65	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2982.75	N.S.	IS 13270 :1992

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per MPCB Consent.**
- **BDL Below Detectable Limit.**
- **N.S. – Not Specified**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING

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/58-594/20-21
Report Date	03/03/2021
Inward No	AL/6-960/06/20-21
Inward Date	22/02/2021
Sampling Time	10:40 AM
Time duration	08 Hr

Sample Location	Bagasse Fugititive Sample
Sample Collected By	AARL

SR.NO.	PARAMETER	UNIT	RESULT	METHOD
1.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	79.81	IS:5182(Part-23):2006
2.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	24.34	IS:5182(Part-23):2006

Verified by
(Analyst)

Authorized Signatory

...End of test report...

SOURCE EMISSION MONITORING REPORT

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/59-241/21-22
		Report Date	05/04/2021
		Inward No	AL/7-20/07/21-22
		Inward Date	28/03/2021
Sample Location	Old Boiler (37 T/hr)	**Sampling Time**	01:00 PM
Sample Collected By	AARL	**Time duration**	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A.	**Stack Details**				
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	60.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	04.00	N.S.	--
6.	Stack area	m^2	12.56	N.S.	--
B.	**Parameters**				
7.	Flue Gas Temperature	°C	138.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	04.19	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.87	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	$Nm^3/hr.$	258329.33	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm^3	110.24	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	86.91	≤2880	IS 11255 (PART 2):1985
13.	Oxide of Nitrogen	mg/Nm^3	112.54	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2615.09	N.S.	IS 13270 :1992

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per MPCB Consent.**
- **BDL-Below Detectable Limit.**
- **N.S. – Not Specified**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

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SOURCE EMISSION 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/59-242/21-22
		Report Date	05/04/2021
		Inward No	AL/7-20/08/21-22
		Inward Date	28/03/2021
Sample Location	New Boiler (80T/hr)	**Sampling Time**	02:00 PM
Sample Collected By	AARL	**Time duration**	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A.	**Stack Details**				
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	72.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	03.54	N.S.	--
6.	Stack area	m^2	09.83	N.S.	--
B.	**Parameters**				
7.	Flue Gas Temperature	°C	142.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	03.56	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.29	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm^3/hr.	185598.78	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm^3	129.54	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	1523.012	≤3120	IS 11255 (PART 2): 1985
13.	Oxide of Nitrogen	mg/Nm^3	269.87	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2715.95	N.S.	IS 13270 :1992

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per MPCB Consent.**
- **BDL-Below Detectable Limit.**
- **N.S. – Not Specified**

Verified by
(Analyst)

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...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | **Phone :** 020-24240030 | **Email :** akankshalab2007@gmail.com

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			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/59-240/21-22
		Report Date	05/04/2021
		Inward No	AL/7-20/06/21-22
		Inward Date	28/03/2021
Sample Location	Bagasse Bailing Machine (Fugititive Sample)	Sampling Time	12:40 PM
Sample Collected By	AARI.	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	METHOD
1.	Particulate matter-PM_{10} (less than 10 micron)	µg/m³	75.63	IS:5182(Part-23):2006
2.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	µg/m³	24.54	IS:5182(Part-23):2006

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SOURCE EMISSION MONITORING REPORT

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/59-470/21-22
		Report Date	30/04/2021
		Inward No	AL/7-39/07/21-22
		Inward Date	22/04/2021
Sample Location	Old Boiler (37 T/hr)	Sampling Time	03:00 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A.	Stack Details				
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	60.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	04.00	N.S.	--
6.	Stack area	m^2	12.56	N.S.	--
B.	Parameters				
7.	Flue Gas Temperature	°C	147.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	04.38	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	08.14	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	$Nm^3/hr.$	261276.31	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm^3	116.23	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	93.57	≤2080	IS 11255 (PART 2):1985
13.	Oxide of Nitrogen	mg/Nm^3	118.02	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2573.27	N.S.	IS 13270 :1992

REMARK,OPINION & INTERPRITATION-

- **All above results are within limits as per MPCB Consent.**
- **BDL-Below Detectable Limit.**
- **N.S. – Not Specified**

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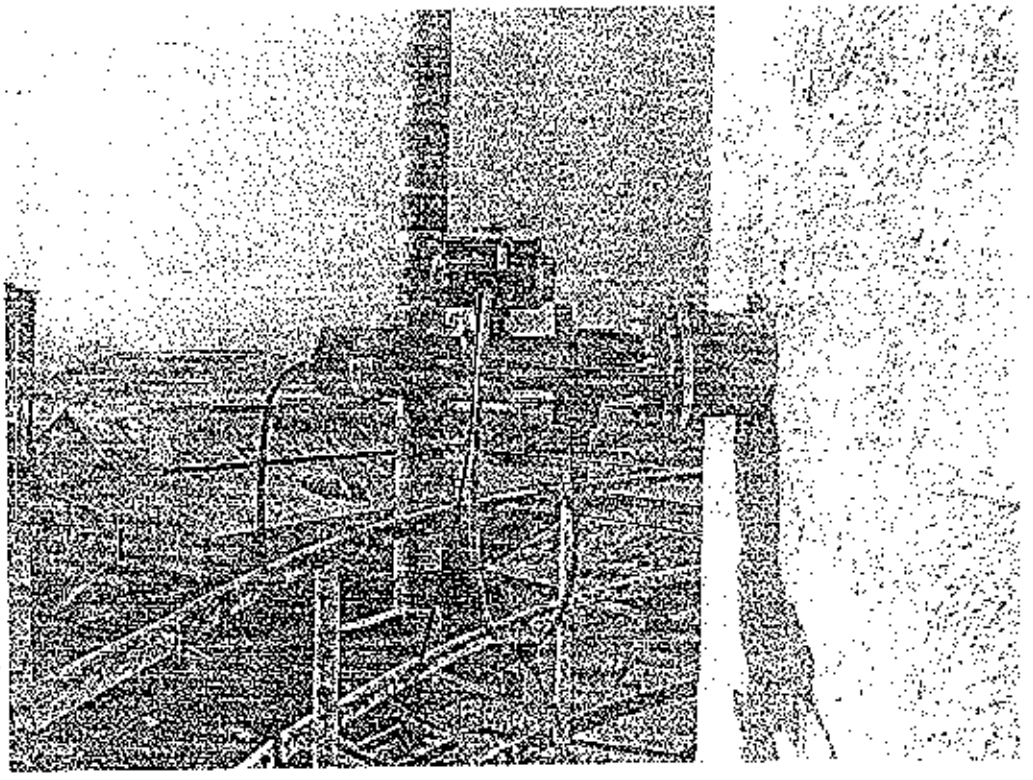
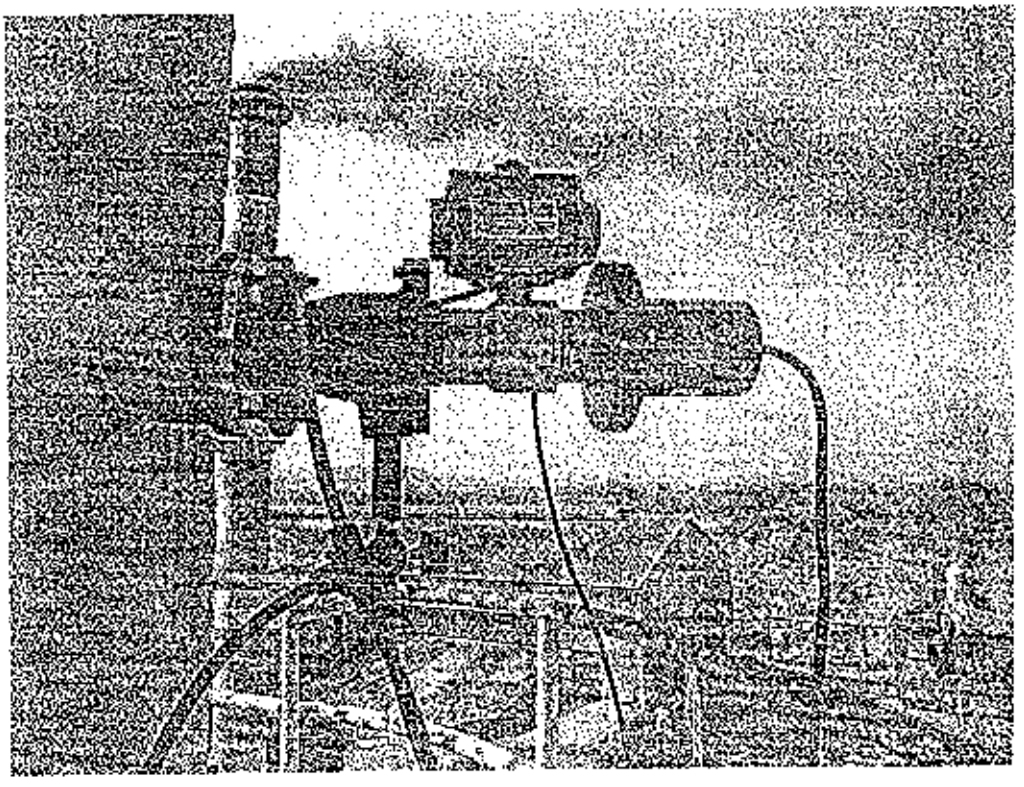
ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon,Dist. - Pune-412 406		Report No	AL/TR/59-469/21-22
		Report Date	30/04/2021
		Inward No	AL/7-39/06/21-22
		Inward Date	22/04/2021
Sample Location	Bagasse Yard (Fugitive Sample)	Sampling Time	12:50 PM
Sample Collected By	AARL	Time duration	08 Hr

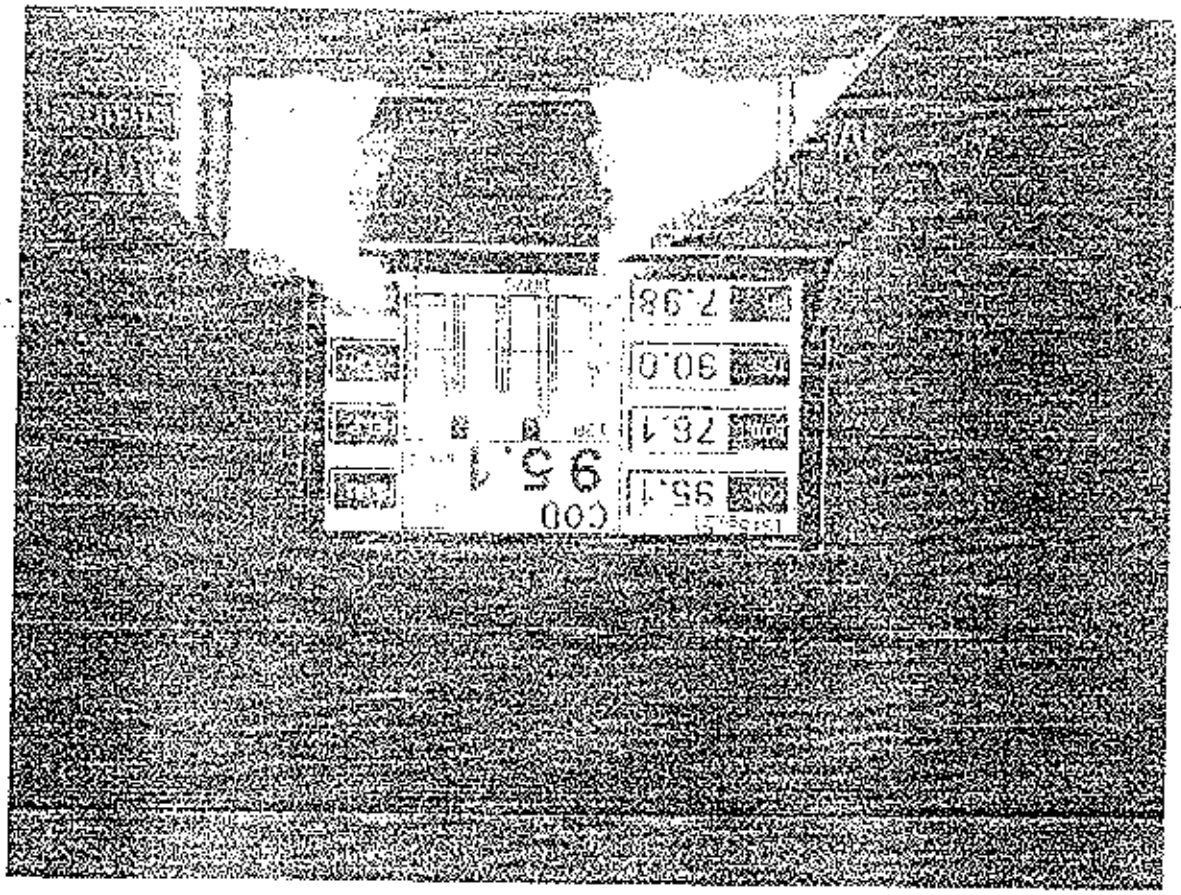
SR.NO.	PARAMETER	UNIT	RESULT	METHOD
1.	Particulate matter-PM_{10} (less than 10 micron)	$\mu g/m^3$	78.23	IS:5182(Part-23):2006
2.	Particulate matter-$PM_{2.5}$ (less than 2.5 micron)	$\mu g/m^3$	24.74	IS:5182(Part-23):2006

Authorized Signatory

...End of test report...



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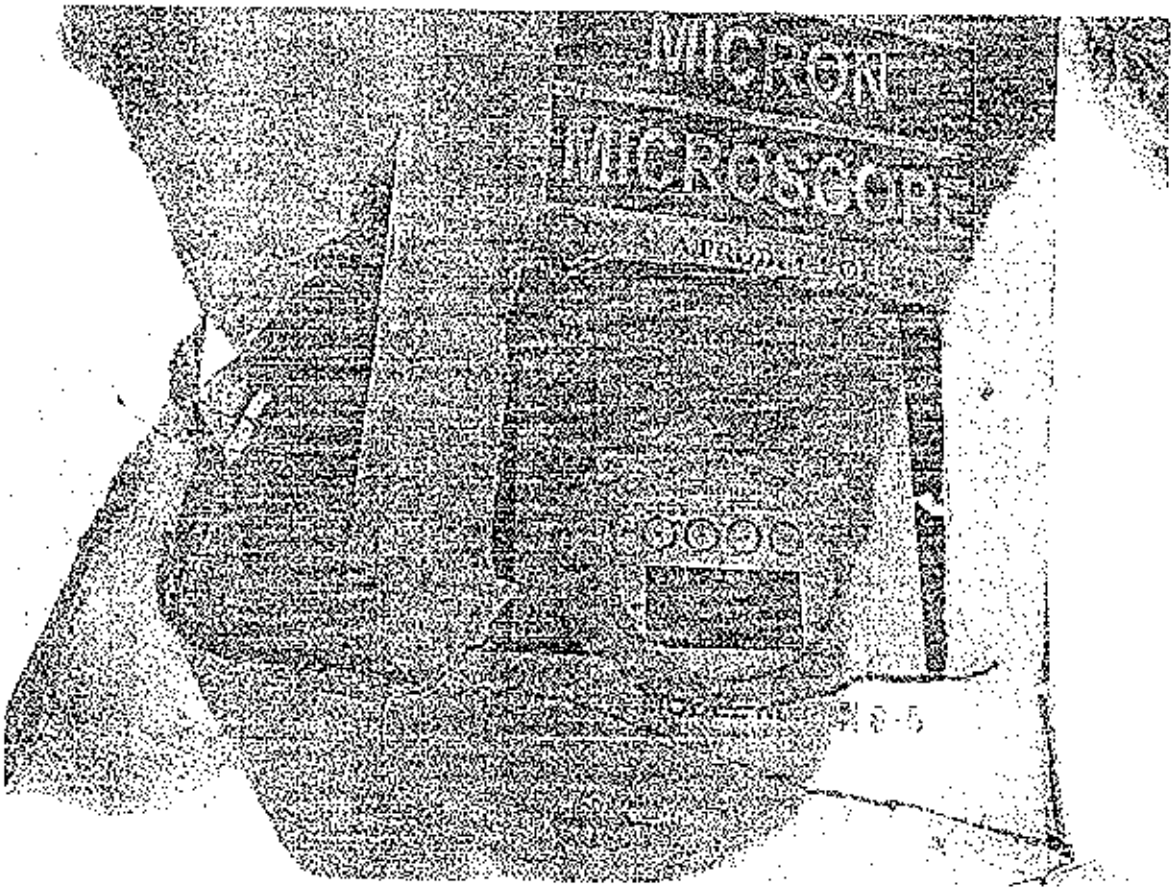
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TEST REPORT

NAME OF COMPANY & ADDRESS:
M/s. Bhima Shankar sahakari sakhar karkhana Ltd.
Dattatraynagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. – Pune-412406

Sample Detail	ETP Outlet Final
Sample Collected By	Party
Sample Volume	3000 ml

Report No	AL/TR/38-241/2020-21
Report Date	10/12/2020
Inward No	12-18
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	Limits as Per MPCB Consent	Method
1.	pH@25° C	----	6.79	5.5-9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	Total Suspended Solids	mg/lit.	2.00	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
3.	Total Dissolved Solids	mg/lit.	1003	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
4.	Chemical Oxygen Demand	mg/lit.	42.0	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
5.	BOD @27° C For 3 Days	mg/lit.	14.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
6.	Chlorides as Cl	mg/lit.	74.4	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
7.	Sulphate as SO_4^{-2}	mg/lit.	8.14	≤1000	APHA-23rd Edition 2017 4500-E-SO_4^{-2}
8.	Oil & Grease	mg/lit.	BDL	≤10.0	APHA 23rd Edition 2017 5520 B

REMARK-

- The above analysis water sample is within the prescribed limits.
- Sample will be preserve for seven days after analysis.
- Above analysis results are related to its testing.
- The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- BDL-Below Detectable Limit.

Verified by
(Analyst)

Authorized Signatory

...End of test report...

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TEST REPORT

NAME OF COMPANY & ADDRESS:
M/s. Bhima Shankar sahakari sakhar karkhana Ltd.
Dattatraynagar, Pargaon Village-Awasari Bk. Tal. Ambegaon, Dist. – Pune-412406

Sample Detail	ETP Outlet Final	**Report No**	AL/TR/38-657/2020-21
Sample Collected By	Party	**Report Date**	08/01/2021
Sample Volume	3000 ml	**Inward No**	12-450
		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	Limits as Per MPCB Consent	Method
1.	pH@25° C	-----	7.00	5.5-9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	Total Suspended Solids	mg/lit.	1.00	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
3.	Total Dissolved Solids	mg/lit.	310	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
4.	Chemical Oxygen Demand	mg/lit.	120	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
5.	BOD @27° C For 3 Days	mg/lit.	40.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
6.	Chlorides as Cl	mg/lit.	44.7	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
7.	Sulphate as SO_4^{2}	mg/lit.	5.94	≤1000	APHA-23rd Edition 2017 4500-E-SO_4^{2}
8.	Oil & Grease	mg/lit.	BDL	≤10.0	APHA 23rd Edition 2017 5520 B

REMARK-

- **The above analysis water sample is within the prescribed limits.**
- **Sample will be preserve for seven days after analysis.**
- **Above analysis results are related to its testing.**
- **The contents of this test report shall not be reproduced in part or without written approval of lab incharge.**
- **BDL-Below Detectable Limit.**

Verified by
(Analyst)

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TEST REPORT

NAME OF COMPANY & ADDRESS:
M/s. Bhima Shankar sahakari sakhar karkhana Ltd.
Dattatrayanagar, Pargaon Village-Awasari Bk. Tal. Ambegaon, Dist. - Pune-412406

Sample Detail	ETP Outlet	**Report No**	AL/TR/39-056/2020-21
Sample Collected By	Party	**Report Date**	02/02/2021
Sample Volume	3000 ml	**Inward No**	1-379
		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	Limits as Per MPCB Consent	Method
1.	pH@25° C	----	7.75	5.5-9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	Total Suspended Solids	mg/lit.	19.0	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
3.	Total Dissolved Solids	mg/lit.	1652	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
4.	Chemical Oxygen Demand	mg/lit.	41.0	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
5.	BOD @27° C For 3 Days	mg/lit.	14.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
6.	Chlorides as Cl	mg/lit.	389	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
7.	Sulphate as SO_4^{2-}	mg/lit.	6.95	≤1000	APHA-23rd Edition 2017 4500-E-SO_4^{2-}
8.	Oil & Grease	mg/lit.	BDL	≤10.0	APHA 23rd Edition 2017 5520 B

REMARK-

- **The above analysis water sample is within the prescribed limits.**
- **Sample will be preserve for seven days after analysis.**
- **Above analysis results are related to its testing.**
- **The contents of this test report shall not be reproduced in part or without written approval of lab incharge.**
- **BDL-Below Detectable Limit.**

Verified by
(Analyst)

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Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | **Phone :** 020-24240030 | **Email :** akankshalab2007@gmail.com

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TEST REPORT

NAME OF COMPANY & ADDRESS:
M/s. Bhima Shankar sahakari sakhar karkhana Ltd.
Dattatrayanagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. – Pune-412406

Sample Detail	ETP Outlet
Sample Collected By	Party
Sample Volume	3000 ml

Report No	AL/TR/39-447/2020-21
Report Date	03/03/2021
Inward No	2-328
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	Limits as Per MPCB Consent	Method
1.	pH@25° C	-----	7.83	5.5-9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	Total Suspended Solids	mg/lit.	31.0	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
3.	Total Dissolved Solids	mg/lit.	1221	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
4.	Chemical Oxygen Demand	mg/lit.	34.0	<250	IS 3025 (Part 58) RA 2012 Open Reflux Method
5.	BOD @27° C For 3 Days	mg/lit.	13.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
6.	Chlorides as Cl	mg/lit.	330	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
7.	Sulphate as SO_4^{2-}	mg/lit.	7.12	≤1000	APHA-23rd Edition 2017 4500-E-SO_4^{2-}
8.	Oil & Grease	mg/lit.	BDL	≤10.0	APHA 23rd Edition 2017 5520 B

REMARK-

- **The above analysis water sample is within the prescribed limits.**
- **Sample will be preserve for seven days after analysis.**
- **Above analysis results are related to its testing.**
- **The contents of this test report shall not be reproduced in part or without written approval of lab incharge.**
- **BDL-Below Detectable Limit.**

Verified by
(Analyst)

Authorized Signatory

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TEST REPORT			Page 1 of 1
NAME OF COMPANY & ADDRESS:		**Report No**	AL/TR/39-992/2021-22
M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. – Pune-412406		**Report Date**	03/04/2021
		Inward No	3-458
		Inward Date	28/03/2021
Sample Detail	ETP Outlet	**Analysis Start date**	30/03/2021
Sample Collected By	Party	**Analysis End date**	02/04/2021
Sample Volume	3000 ml	**Sample Condition**	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Limits as Per MPCB Consent	Method
1.	pH@25° C	-----	8.10	5.5-9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	Total Suspended Solids	mg/lit.	8.00	<100	IS 3025 (Part 17) RA 2012 Gravimetric method
3.	Total Dissolved Solids	mg/lit.	1343	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
4.	Chemical Oxygen Demand	mg/lit.	64.0	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
5.	BOD @27° C For 3 Days	mg/lit.	21.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
6.	Chlorides as Cl	mg/lit.	104	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
7.	Oil & Grease	mg/lit.	BDL	≤10.0	APHA 23rd Edition 2017 5520 B
8.	Sulphate as SO_4^{2-}	mg/lit.	9.83	≤1000	APHA-23rd Edition 2017 4500-E-SO_4^{2-}

REMARK-

- **The above analysis water sample is within the prescribed limits.**
- **Sample will be preserve for seven days after analysis.**
- **Above analysis results are related to its testing.**
- **The contents of this test report shall not be reproduced in part or without written approval of lab incharge.**
- **BDL-Below Detectable Limit.**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | **Phone :** 020-24240030 | **Email :** akankshalab2007@gmail.com

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

TEST REPORT

NAME OF COMPANY & ADDRESS:
M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.
Dattatraynagar, Pargaon Village-Awasari Bk Tal.- Ambegaon, Dist. – Pune-412406

Sample Detail	ETP Outlet
Sample Collected By	Party
Sample Volume	3000 ml

Report No	AL/TR/40-313/2021-22
Report Date	30/04/2021
Inward No	4 314
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	Limits as Per MPCB Consent	Method
1.	pH@25° C	---	7.83	5.5-9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	Total Suspended Solids	mg/lit.	10.0	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
3.	Total Dissolved Solids	mg/lit.	1397	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
4.	Chemical Oxygen Demand	mg/lit.	63.2	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
5.	BOD @27° C For 3 Days	mg/lit.	21.0	<100	IS 3025 (Part 44) RA 2014 Azide Modification Method
6.	Chlorides as Cl	mg/lit.	44.6	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
7.	Oil & Grease	mg/lit.	BDL	<10.0	APHA 23rd Edition 2017 5520 B
8.	Sulphate as SO_4^{2-}	mg/lit.	4.75	<1000	APHA-23rd Edition 2017 4500-E-SO_4^{2-}

REMARK-

- **The above analysis water sample is within the prescribed limits.**
- **Sample will be preserve for seven days after analysis.**
- **Above analysis results are related to its testing.**
- **The contents of this test report shall not be reproduced in part or without written approval of lab incharge.**
- **BDL-Below Detectable Limit.**

Authorized Signatory

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bavdewadi, Pune 411037. | Phone : 020-23240030 | Email : akanksha1a02007@gmail.com

November 2020

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/11/2020 00:00
To Date 30/11/2020 23:59
Interval Daily
Function Average

Plant	BSSK	BSSK	BSSK	BSSK
Analyzer	ETP1	ETP1	ETP1	ETP1
Parameter	BOD	COD	pH	TSS
Unit	mg/l	mg/l	pH	mg/l
Limit	0.00 - 100.00	0.00 - 250.00	5.50 - 9.00	0.00 - 100.00
17/11/2020 00:00	27.36 <	43.88 <	6.32 <	0 <
18/11/2020 00:00	26.1	42.91	6.56	0
19/11/2020 00:00	24.01	44.43	6.83	7.78
20/11/2020 00:00	24.33	45	6.56	6.94
21/11/2020 00:00	24.5	45.3	6.47	3.48
22/11/2020 00:00	23.66	43.69	6.46	3.62 B
23/11/2020 00:00	23.48	43.3	6.43	2.84
24/11/2020 00:00	23.42	43.18	6.42	0
25/11/2020 00:00	23.24	42.79	6.42	1.27
26/11/2020 00:00	24.21	44.64	6.48	0
27/11/2020 00:00	25.03	46.23	6.53	0.2
28/11/2020 00:00	24.58	45.4	6.56	0
29/11/2020 00:00	24.09	44.51	6.55	0
30/11/2020 00:00	23.91	44.14	6.53	4.65
Average	24.4	44.2	6.5	2.2
Geom.Mean	24.4	44.2	6.5	1.3
Maximum	27.4	46.2	6.8	7.8
Median	24.2	44.3	6.5	0.7
Minimum	23.2	42.8	6.3	0
Mode	24.6	43.7	6.5	0
Std.Deviation	1.1	1	0.1	2.7
Total Active Duration				

December-20

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/12/2020 00:00
To Date 31/12/2020 23:59
Interval Daily
Function Average

Plant	BSSK	BSSK	BSSK	BSSK
Analyzer	ETP1	ETP1	ETP1	ETP1
Parameter	BOD	COD	pH	TSS
Unit	mg/l	mg/l	pH	mg/l
Limit	0.00 - 100.00	0.00 - 250.00	5.50 - 9.00	0.00 - 100.00
01/12/2020 00:00	23.65	43.64	6.54	2.47
02/12/2020 00:00	23.67	43.69	6.58	1.54
03/12/2020 00:00	23.5	43.3	6.6	1.58
04/12/2020 00:00	23.58	43.42	6.62	6.3
05/12/2020 00:00	23.83	43.95	6.67	4.56
06/12/2020 00:00	23.51	43.27	6.69	3.69
07/12/2020 00:00	23.88	43.99	6.67	2.53
08/12/2020 00:00	24.61	45.42	6.61	2.83
09/12/2020 00:00	24.87	45.9	6.61	1.74
10/12/2020 00:00	25.63	47.3	6.59	1.85
11/12/2020 00:00	25.16	46.44	6.63	0
12/12/2020 00:00	24.76	45.76	6.66	1.48
13/12/2020 00:00	24.64	45.49	6.68	0.05
14/12/2020 00:00	24.77	45.71	6.7	0
15/12/2020 00:00	24.67	45.54	6.68	0.03
16/12/2020 00:00	24.4	45.02	6.66	1.81
17/12/2020 00:00	24.42	45.06	6.55	1.07
18/12/2020 00:00	25.13	46.33	6.49	0.27
19/12/2020 00:00	25.62	47.23	6.35	0.45
20/12/2020 00:00	25.42	46.85	6.29	1.36 B
21/12/2020 00:00	25.63	47.33	6.48	0.47
22/12/2020 00:00	25.3	46.6	6.65	0
23/12/2020 00:00	25.05	46.16	6.64	0.27
24/12/2020 00:00	25.13	46.33	6.66	6.93 H
25/12/2020 00:00	25.27	46.58	6.56	3.01 HB
26/12/2020 00:00	25.31	46.64	6.56	6.43 BH
27/12/2020 00:00	25.21	46.48	6.74	8.04 H
28/12/2020 00:00	25.25	46.56	6.74	19.83 H
29/12/2020 00:00	25.4	46.84	6.75	39.58 HB
30/12/2020 00:00	25.7	47.4	6.75	28.58 H
31/12/2020 00:00	26.27	48.49	6.75	34.59 H
Average	24.8	45.8	6.6	5.9
Geom.Mean	24.8	45.7	6.6	2.1
Maximum	26.3	48.5	6.7	39.6
Median	25.1	46.2	6.6	1.8
Minimum	23.5	43.3	6.3	0
Mode	24.6	46.3	6.6	0
Std.Deviation	0.8	1.4	0.1	10.3

January-202

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/01/2021 00:00
To Date 31/01/2021 23:59
Interval Daily
Function Average

Plant	BSSK	BSSK	BSSK	BSSK
Analyzer	ETP1	ETP1	ETP1	ETP1
Parameter	BOD	COD	pH	TSS
Unit	mg/l	mg/l	pH	mg/l
Limit	0.00 - 100.00	0.00 - 250.00	5.50 - 9.00	0.00 - 100.00
01/01/2021 00:00	26.39	48.74	6.67	27.97
02/01/2021 00:00	26.39	48.75	6.63	34.27
03/01/2021 00:00	26.66	49.23	6.65	49.87 H
04/01/2021 00:00	26.97	49.72	6.64	38.96
05/01/2021 00:00	27.13	49.92	6.65	44.26
06/01/2021 00:00	27.26	50.11	6.65	45.1
07/01/2021 00:00	27.43	50.41	6.65	44.67
08/01/2021 00:00	27.87	51.28	6.64	45.98
09/01/2021 00:00	27.41	50.48	6.6	49.16
10/01/2021 00:00	26.87	49.61	6.59	44.9
11/01/2021 00:00	26.61	49.16	6.6	38.65
12/01/2021 00:00	26.49	48.94	6.6	37.21
13/01/2021 00:00	26.44	48.85	6.61	39.64 H
14/01/2021 00:00	26.9	49.63	6.62	38.96
15/01/2021 00:00	26.79	49.5	6.64	40.29 HB
16/01/2021 00:00	26.66	49.27	6.64	35.85
17/01/2021 00:00	26.92	49.66	6.57	66.05 HB
18/01/2021 00:00	25.86	47.73	6.52	81.77
19/01/2021 00:00	25.85	47.71	6.52	81.75
20/01/2021 00:00	25.85	47.69	6.52	81.75
21/01/2021 00:00	44.95	85.8	6.8	51.98
22/01/2021 00:00	74.03	144.2	7.47	13.72 H
23/01/2021 00:00	60.74	117.49	7.35	6.23 BH
24/01/2021 00:00	31.47	58.59	7.02	4.75
25/01/2021 00:00	29.49	54.52	6.86	17.98 HB
26/01/2021 00:00	27.73	51.03	6.76	4.66 H
27/01/2021 00:00	26.68	49.22	6.66	0.26
28/01/2021 00:00	26.69	49.28	6.62	0.86 B
29/01/2021 00:00	28.59	53.17 H	6.58	2.05 H
30/01/2021 00:00	26.42	48.73	6.53	4.78 H
31/01/2021 00:00	26.15	48.27	6.49	0
Average	30.2	56.3	6.7	34.7
Geom.Mean	29.2	54	6.7	21.3
Maximum	74	144.2	7.5	81.8
Median	26.9	49.6	6.6	39
Minimum	25.9	47.7	6.5	0
Mode	27.4	49.9	6.6	0
Std.Deviation	10.6	21.3	0.2	24.4

February - 2021

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/02/2021 00:00
To Date 28/02/2021 23:59
Interval Daily
Function Average

Plant	BSSK	BSSK	BSSK	BSSK
Analyzer	ETP1	ETP1	ETP1	ETP1
Parameter	BOD	COD	pH	TSS
Unit	mg/l	mg/l	pH	mg/l
Limit	0.00 - 100.00	0.00 - 250.00	5.50 - 9.00	0.00 - 100.00
01/02/2021 00:00	26.16	48.26	6.49	0
02/02/2021 00:00	26.16	48.25	6.49	0
03/02/2021 00:00	26.16	48.25	6.49	0
04/02/2021 00:00	26.16	48.24	6.49	0
05/02/2021 00:00	26.15	48.24	6.49	0
06/02/2021 00:00	26.15	48.23	6.49	0
07/02/2021 00:00	26.15	48.23	6.49	0
08/02/2021 00:00	26.14	48.18	6.49	0
09/02/2021 00:00	26.12	48.13	6.49	0
10/02/2021 00:00	26.12	48.14	6.49	0
11/02/2021 00:00	26.12	48.15	6.49	0
12/02/2021 00:00	26.11	48.13	6.49	0
13/02/2021 00:00	26.11	48.14	6.49	0
14/02/2021 00:00	26.12	48.17	6.49	0
15/02/2021 00:00	26.13	48.18	6.49	0
16/02/2021 00:00	26.14	48.2	6.49	0
17/02/2021 00:00	26.14	48.22	6.49	0
18/02/2021 00:00	26.14	48.22	6.49	0
19/02/2021 00:00	26.14	48.21	6.49	0
20/02/2021 00:00	26.15	48.2	6.49	0
21/02/2021 00:00	26.14	48.19	6.49	0
22/02/2021 00:00	26.14	48.22	6.49	0
23/02/2021 00:00	26.13	48.22	6.49	0
24/02/2021 00:00	26.11	48.2	6.49	0
25/02/2021 00:00	26.13	48.21	6.49	0
26/02/2021 00:00	26.13	48.2	6.49	0
27/02/2021 00:00	26.13	48.2	6.49	0
28/02/2021 00:00	26.14	48.23	6.5	0
Average	26.1	48.2	6.5	0
Geom.Mean	26.1	48.2	6.5 ?	
Maximum	26.2	48.3	6.5	0
Median	26.1	48.2	6.5	0
Minimum	26.1	48.1	6.5	0
Mode	26.2	48.2	6.5	0
Std.Deviation	0	0	0	0
Total Active Duration				

March-2021

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/03/2021 00:00
To Date 31/03/2021 23:59
Interval Daily
Function Average

Plant	BSSK	BSSK	BSSK	BSSK
Analyzer	ETP1	ETP1	ETP1	ETP1
Parameter	BOD	COD	pH	TSS
Unit	mg/l	mg/l	pH	mg/l
Limit	0.00 - 100.00	0.00 - 250.00	5.50 - 9.00	0.00 - 100.00
01/03/2021 00:00	26.14	48.26	6.5	0
02/03/2021 00:00	26.14	48.24	6.5	0
03/03/2021 00:00	29.2	54.17	6.93 L	4.54
04/03/2021 00:00	29.9	55.38	7.14	1.47
05/03/2021 00:00	34.48	64.81	7.17	4.69
06/03/2021 00:00	39.58	75.29	7.1	3.87
07/03/2021 00:00	36.47	68.95	7.07	1.28
08/03/2021 00:00	34.16	64.17	7.33	1.3
09/03/2021 00:00	33.34	62.49	7.42	4.45
10/03/2021 00:00	31.96	59.24	7.38	5.38
11/03/2021 00:00	30.77	57.13	7.4	5.62
12/03/2021 00:00	30.81	57.22	7.41	5.28
13/03/2021 00:00	30.65	56.89	7.55	2.51
14/03/2021 00:00	30.69	56.98	7.51	2.9
15/03/2021 00:00	30.62	56.84	7.52	4.96 H
16/03/2021 00:00	30.58	56.73	7.51	0.74
17/03/2021 00:00	29.27	54.36	7.6	7.49
18/03/2021 00:00	30.98	57.58	7.7	1.64
19/03/2021 00:00	30.27	56.1	7.7	1.32
20/03/2021 00:00	30.25	56.04	7.7	1.11
21/03/2021 00:00	30.33	56.19	7.54	1.04
22/03/2021 00:00	30.12	55.75	7.46	1.8
23/03/2021 00:00	29.51 <	54.47 <	7.39 <	0 <
24/03/2021 00:00	31.36	58.38	7.34	4.09
25/03/2021 00:00	30.76	57.12	7.47	3
26/03/2021 00:00	30.5	56.56	7.73	6.5
27/03/2021 00:00	30.5	56.55	7.81	2.41
28/03/2021 00:00	30.95	57.51	7.94	3.85
29/03/2021 00:00	30.65	56.91	7.83	4.14
30/03/2021 00:00	30.4	56.32	7.74 L	1.33
31/03/2021 00:00	30.36	56.25	7.87	2.36
Average	31	57.7	7.4	2.9
Geom.Mean	30.9	57.5	7.4	2.7
Maximum	39.6	75.3	7.9	7.5
Median	30.6	56.8	7.5	2.5
Minimum	26.1	48.2	6.5	0
Mode	30.8	57	7.8	0
Std.Deviation	2.5	5.1	0.3	2

April-2021

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/04/2021 00:00
To Date 30/04/2021 23:59
Interval Daily
Function Average

Plant	BSSK	BSSK	BSSK	BSSK
Analyzer	ETP1	ETP1	ETP1	ETP1
Parameter	BOD	COD	pH	TSS
Unit	mg/l	mg/l	pH	mg/l
Limit	0.00 - 100.00	0.00 - 250.00	5.50 - 9.00	0.00 - 100.00
01/04/2021 00:00	30.32	56.17	7.84	0.81
02/04/2021 00:00	30.48	56.5	7.58	1.77
03/04/2021 00:00	31	57.62	7.55	2.06
04/04/2021 00:00	31.35	58.34	7.46	1.89
05/04/2021 00:00	31.11	57.83	7.58	2.92
06/04/2021 00:00	31.06	57.74	7.73	3.07
07/04/2021 00:00	31.12	57.36	8.1	2.78
08/04/2021 00:00	30.44	56.44	7.94	0.79
09/04/2021 00:00	31.05	57.71	7.63	7.34
10/04/2021 00:00	31.04	57.68	7.66	1.81
11/04/2021 00:00	31.88	59.45	7.42	2.83
12/04/2021 00:00	31.8	59.29	7.54	2.74
13/04/2021 00:00	31.67	59.03	7.6	2.53
14/04/2021 00:00	31.88	59.44	7.49	3.95
15/04/2021 00:00	32.07	59.83	7.21	2.6
16/04/2021 00:00	32.44	60.59	7.31	4.51
17/04/2021 00:00	32.17	60.06	7.51	5.57
18/04/2021 00:00	32.03	59.78	7.62	5.6
19/04/2021 00:00	31.93	59.54	7.75	2.93
20/04/2021 00:00	31.14	57.98	7.69	7.1
21/04/2021 00:00	31.5	58.65	7.72	4.11
22/04/2021 00:00	31.72	59.11	7.68	6.44
23/04/2021 00:00	31.86	59.4	7.51	5.39
24/04/2021 00:00	31.62	58.9	6.89	5.58
25/04/2021 00:00	31.65	58.95	6.88	5.45
26/04/2021 00:00	31.64	58.96	6.89	6.06
27/04/2021 00:00	31.73	59.12	7.11	5.44
28/04/2021 00:00	32.36	60.45	7.62	5.78
29/04/2021 00:00	31.74	59.17	7.75	8.13
30/04/2021 00:00	31.82	59.28	7.45	3.74
Average	31.5	58.7	7.5	4.1
Geom.Mean	31.5	58.7	7.5	3.5
Maximum	32.4	60.6	8.1	8.1
Median	31.7	59	7.6	3.8
Minimum	30.3	56.2	6.9	0.8
Mode	31.9	59.3	7.5	4
Std.Deviation	0.5	1.2	0.3	2
Total Active Duration				

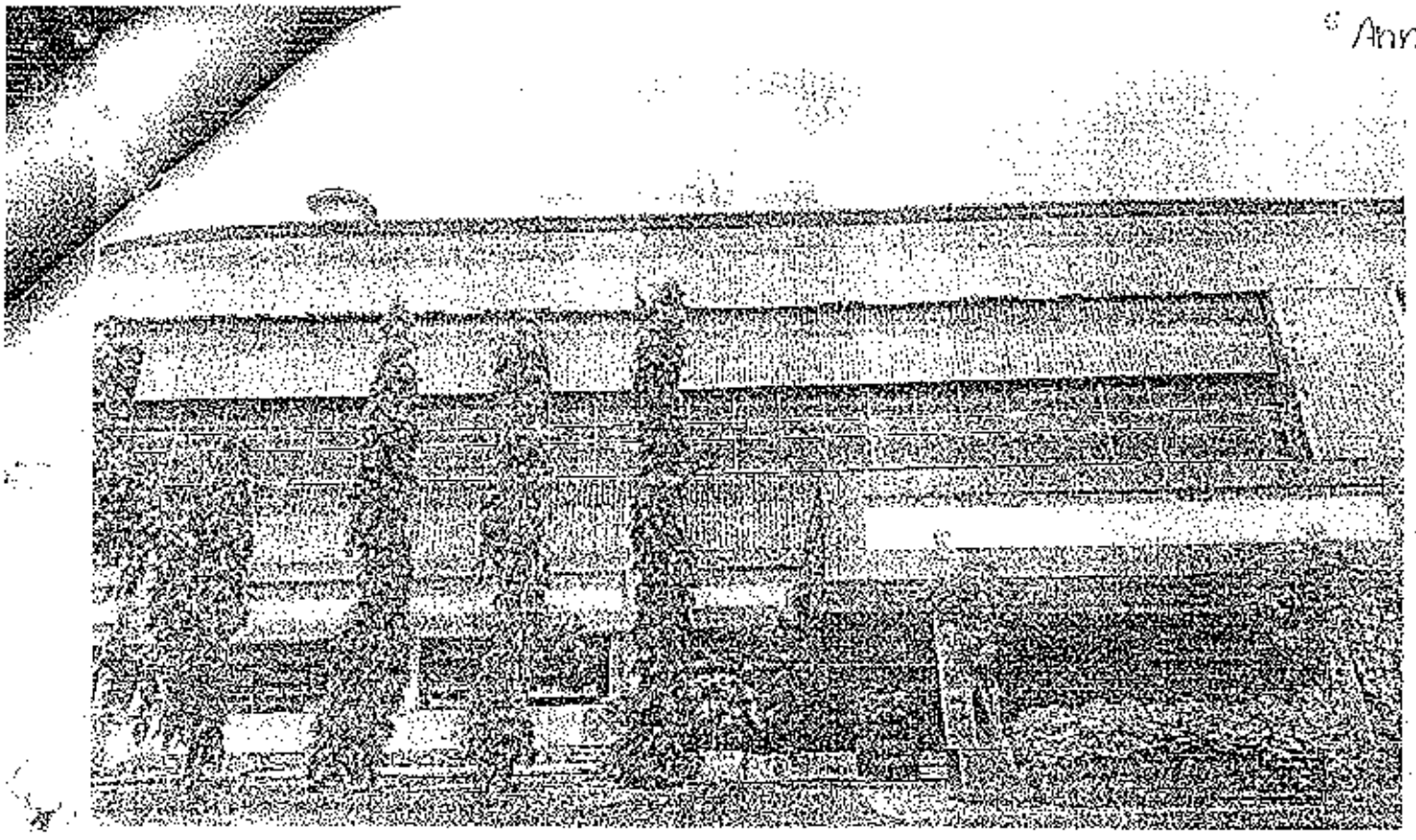
May-2021

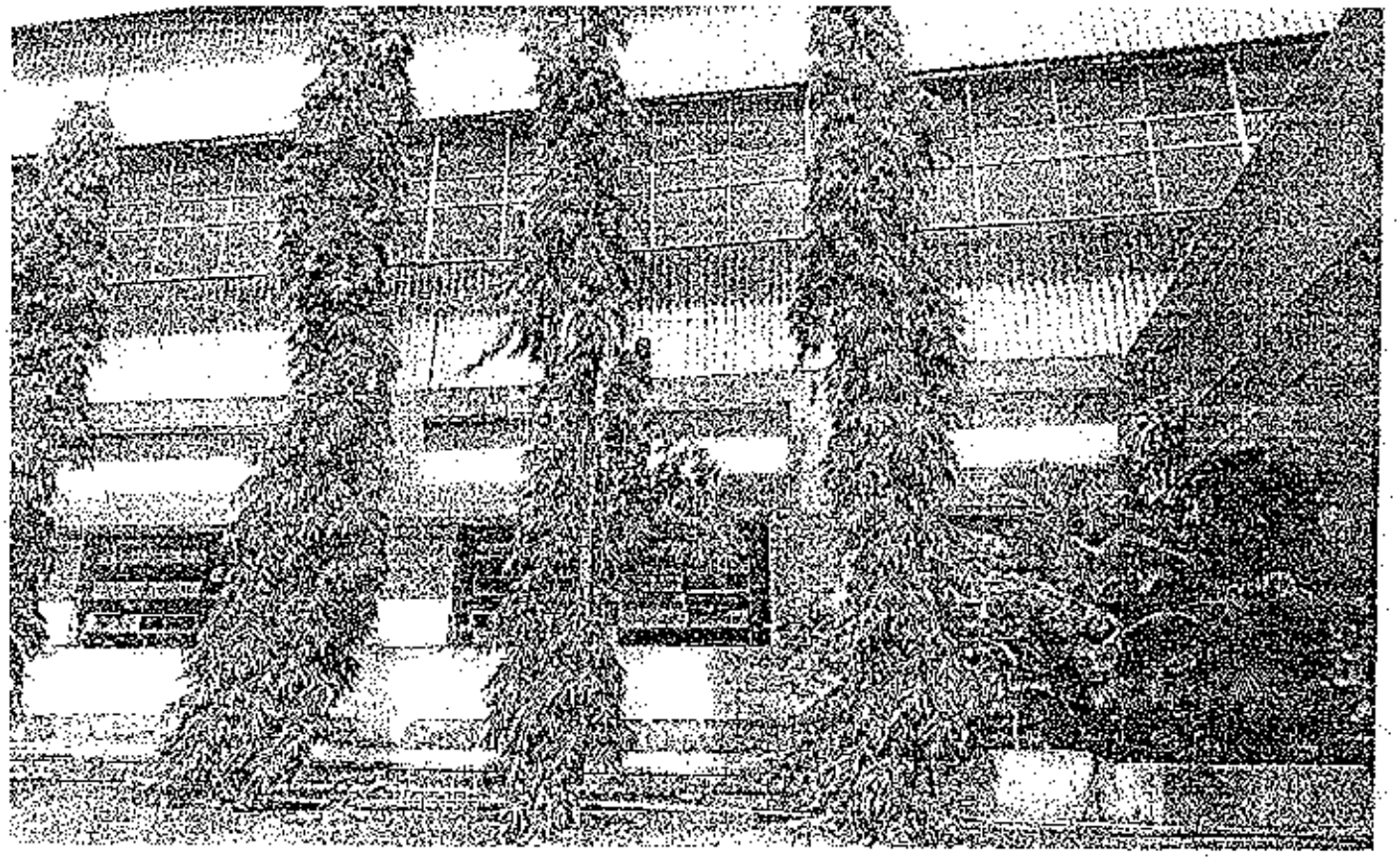
EnviroConnect Forbes Marshall Multi Station Report

From Date 01/05/2021 00:00
To Date 31/05/2021 23:59
Interval Daily
Function Average

Plant	BSSK	BSSK	BSSK	BSSK
Analyzer	ETP1	ETP1	ETP1	ETP1
Parameter	BOD	COD	pH	TSS
Unit	mg/l	mg/l	pH	mg/l
Limit	0.00 - 100.00	0.00 - 250.00	5.50 - 9.00	0.00 - 100.00
01/05/2021 00:00	31.94	59.54	7.54	2.57
02/05/2021 00:00	32.55	60.81	7.49	11.46 BH
03/05/2021 00:00	32.75	61.24	7.25	6.32
04/05/2021 00:00	32.86	61.26	7.44	7.82
05/05/2021 00:00	33.13	61.44	7.54	8.22
06/05/2021 00:00	33.7	63.25	7.55	7.49
07/05/2021 00:00	35.36	66.65	7.57	9.08
08/05/2021 00:00	34.47	64.84	7.47	8.7
09/05/2021 00:00	34.85	65.66	7.36	8.1
10/05/2021 00:00	33.94 <	63.73 <	7.31 <	7.04 <
Average	33.6	62.8	7.5	7.7
Geom.Mean	33.5	62.8	7.5	7.3
Maximum	35.4	66.6	7.6	11.5
Median	33.4	62.3	7.5	8
Minimum	31.9	59.5	7.3	2.6
Mode	33.7	59.5	7.3	6.3
Std.Deviation	1.1	2.3	0.1	2.3
Total Active Duration				

Ann. IV





ANNEX

DOCUMENT NO. – SHR/O- 301/20-21

RAIN WATER HARVESTING PLAN FOR BHIMASHANKAR SSK LTD AT DATTATRAYANAGAR AT POST PARGAON TARF, AWASARI BK, TAL. AMBEGAON, DIST. PUNE.

Prepared by:
Shrashtaa AECC Pvt.Ltd
1st Floor, Kshitij Business Center,
Off Law college Road, DG Dani Road
Pune 411004.

SHRASHTAA
Empowering Creation

Introduction: -

The **Bhimashankar SSK Ltd**. industrial project is a sugar factory, Dist- Pune. The purpose of this report is to provide the basis for developing the detail rain water harvesting plan for the entire development. It is to propose the general considerations, recommended practices and specific precautions based on referenced standards and industry practices in order to achieve the most efficient, economic & reliable design and minimize future costs.

The Systems of the building has been conceptualized with the plans, design standards and criteria parameters to produce a concept which shall be integrated as a whole. the report spells out the design in conjunction with the regional specifications through the following section of Storm water and Rain water Harvesting Systems.

Objectives: -

1) To access rain water potential of the total 145 Acres land of sugar factory.
2) To calculate rain water considering existing and proposed development in the factory area.
3) To calculate runoff of all the areas such as constructed area, open area, roads (paved, un-paved) and vegetation areas.
4) To suggest appropriate rain water harvesting methods.
5) To prepare concrete plan for rain water harvesting for the entire industrial factory areas.
6) Prepare storm water network system considering 100mm rainfall as per suggestions of SFAC-I Mumbai Maharashtra.

We have studied the topography slope and contour of the 145 Acres and of the factory. The collected the information on rainfall from last 10 years, land use break up, built-up area, existing structures in the factory premises etc. Calculated harvesting potential as per standards NBC 2016, Volume II. Suggested suitable methods of rain water harvesting. Designed of storm water drain, water collection tanks and ground water recharge pits. Designed total storm water network system for the entire premise.

About The Project: -

Bhimashankar SSK Ltd. Is register as a co-operative factory located at Dattatraynagar at post-paragon tarf Avasari (Bk), Tal – Ambegaon, Dist – Pune. The crushing capacity of factory is 6000Tcd and 19 MW co-generation. The total area of the factory is about 145 Acre i.e 5,80,000 Sqm. The detail area statement is given below

Area statement of the project as below: -

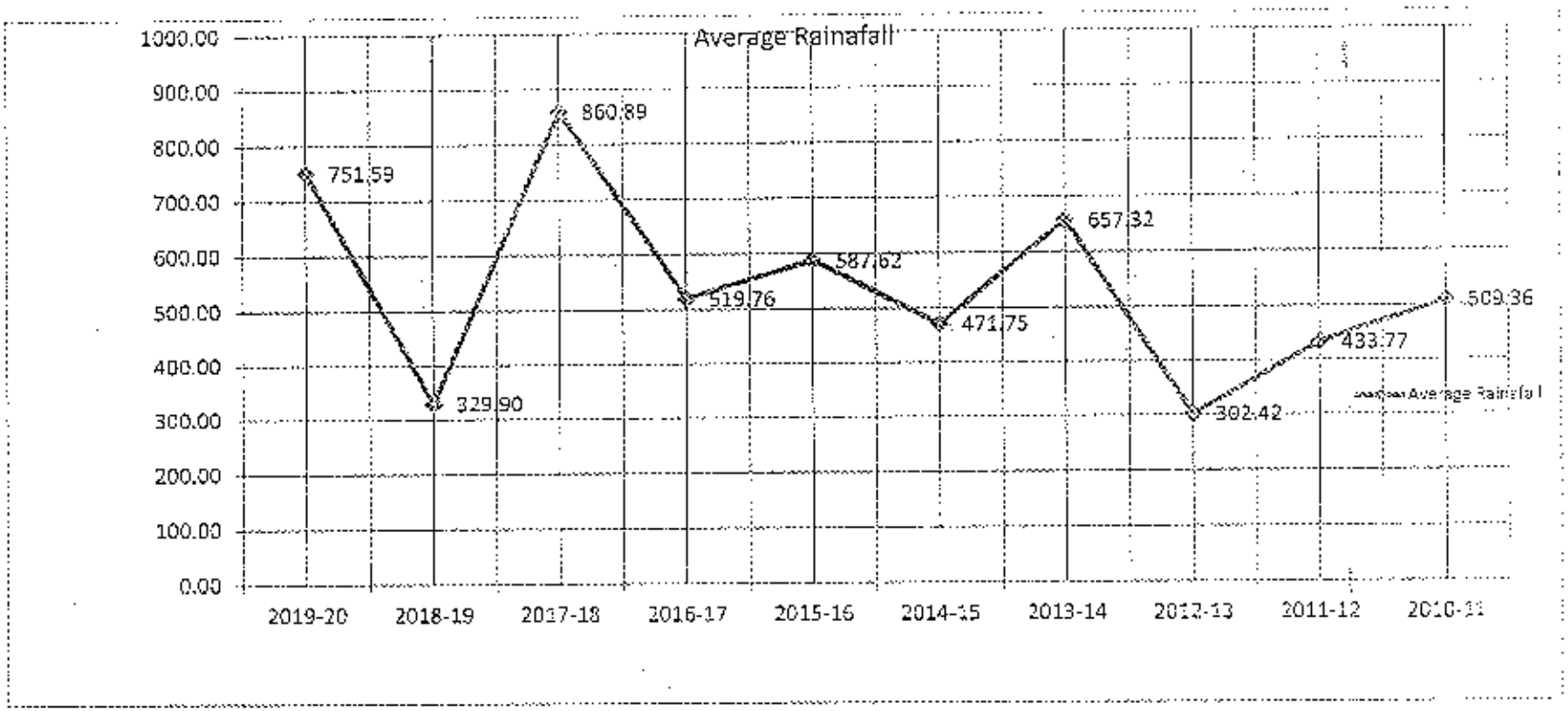
SR.NO	AREA CALCULATIONS	Area in Sq mt
1	Total area of plot	**5,80,000.00**
2	A) Area of sugar factory unit	5341.78
	B) Area under Distillery (Proposed)	14112.00
	C) Area under industrial activity	60503.00
	(A+B) Total area of industry	**79956.78**
3	Area of residential building	7218.94
4	Parking Area	3064.80
5	Area of building other than residential & industry	5571.13
6	Area of labor camp -1	35133.00
7	Area of labor camp -2	127433.63
8	Area of open land	78205.00
9	Green belt area existing	100000.00
10	Green belt area proposed	90000.00
11	Area under road	43000.00
12	Area under switch yard	4416.00

Rainfall at Project Site: -

Year	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
2019-20	0	0	0	0	0	129.49	155.33	87.92	129.87	203.2	45.78	0	751.6
2018-19	0	0	0	1.84	0	162.08	90.52	40.12	7.01	11.43	16.9	0	329.9
2017-18	0	0	0	0	4.58	240.17	93.17	206.25	182.12	134.3	0.3	0	860.9
2016-17	0	0	0	0	0	66.17	187.97	75.28	129.69	60.65	0	0	519.8
2015-16	0	0	0	0	0	118.89	30.21	22.92	249.59	111.86	54.15	0	587.6
2014-15	0	33.41	35.98	1.49	4.822	28.84	88.67	164.43	66.6	12.32	33.05	2.14	471.8
2013-14	0.14	0	29.078	3.18	5.72	180.8	109.52	11.47	238.32	53.97	13.84	11.28	657.3
2012-13	0	0	0	0	0	39.48	91.51	56.61	35.6	79.22	0	0	302.42
2011-12	0	0	0	0	0	33.11	87.25	85.6	158.68	69.13	0	0	433.77
2010-11	0	0	0	0	0.7	144.51	76.75	83.05	113.74	16.91	73.7	0	509.35
Average Rain Fall (ten years)													542.44

Source: Data Provided by PP.

Yearly Rainfall Graph for 10 years.



Rain water harvesting calculations: -

SR.NO	AREA CALCULATIONS	Area in Sq.mt	Runoff coefficient	Rainfall in M3
	Before Construction			
1	Total area of plot	580000.00	0.50	249400.00
			TOTAL	249400.00
	After Construction			
2	A) Area of sugar factory unit	5341.78	0.90	4134.54
	B) Area under Distillery (Proposed)	14112.00	0.90	10922.69
	C) Area under industrial activity	60503.00	0.90	46829.32
	(A+B) Total area of industry	79956.78		0.00
3	Area of residential building	7218.94	0.90	5587.46
4	Parking Area	3064.80	0.75	1976.80
5	Area of building other than residential & industry	5571.13	0.75	3593.38
6	Area of labour camp	162566.63	0.75	104855.48
8	Area of open land	78205.00	0.60	40353.78
9	Green belt area	196000.00	0.15	25284.00
11	Area under road	43000.00	0.80	29584.00
12	Area under switch yard	4416.00	0.75	2848.32
			TOTAL	275969.76

Total annual availability of rain water at site: -

1) Based on annual rain fall data considered as 860mm (at actual survey)

A) Before Construction: -
Geographical plot area is 5, 80,000.00 Sq. m

Annual rain fall = Plot area x Average annual rain fall x Runoff coefficient
= 580,000 x 0.86 x 0.50
= 249400.00 M^3

SR.NO	Surface type	Run off coefficient range
1	Roof (Metal, Gravel , Asphalt, slab)	0.95-0.90
2	Pavement	1.0-0.90
3	Ground surface (Hard flat ground without vegetation)	0.75-0.25
4	Ground surface (Hard flat ground vegetation)	0.60-0.15

102

5	Lawns	0.30. 0.15

B) **After construction: -**

1) Total Area under industrial:

Area of industry x Average annual rain fall x Runoff coefficient

= 79956.78x 0.86 x 0.90
= **61886.54 M³**

2). Area under residential building:

Area of building x Average annual rain fall x Runoff coefficient
= 7218.94 x 0.86 x 0.90
= 5587.45 M³

3). Area under parking & other than residential building:

Area of building x Average annual rain fall x Runoff coefficient
= 8635.93 x 0.86 x 0.75
= 5570.17 M³

4) Area under labor camp:

Area of building x Average annual rain fall x Runoff coefficient
= 162,566.63 x 0.86 x 0.75
= 104,855.47 M³

5) Area of open land:

Area of building x Average annual rain fall x Runoff coefficient
= 78205 x 0.86 x 0.60
= 40353.78 M³

6) Area of green belt:-

Area of building x Average annual rain fall x Runoff coefficient
= 196000 x 0.86 x 0.15
= 25284.00 M³

7) Area of under road: -

Area of building x Average annual rain fall x Runoff coefficient
= 43000 x 0.86 x 0.80
= 29584.0 M^3

8) Area of under switch yard: -

Area of building x Average annual rain fall x Runoff coefficient
= 4416 x 0.86 x 0.75
= 2848.32 M^3

Total rain water available – (1+2+3+4+5+6+7+8) **= 2,75,969.76 M^3**

Anticipations of efficiency of RWH scheme: -

Above calculations and following is very crude estimate. It is impossible to exactly predict the annual recharge as well as harvesting takes place due to large variations in intensities, concentration and spread out of the monsoon and rain spells. Exact quantification of recharge is varying year to year.

- The recharge system alone will accommodate runoff from roof 69.29 M^3/Min (after landscape area developed) at maximum intensity.
- As per average daily rainfall in the area which is 50mm/day, the system can accommodate 100% of the roof top runoff at max rainfall intensity.
- During 60days, out of 100 days the rain fall is less than 10-15mm /day or so infiltration and subsequent filling accompanied by evaporation can be anticipated in a cyclic manner.
- During maximum rainfall intensity of 50mm/hr as denied by NBC, the rain water harvesting design will be accommodate almost all the incremental runoff.

RAIN WATER HARVESTING

With burgeoning population and rising demands the pressure on the existing water resources has grown many folds. Large scale construction and urban development projects catering to the need of growing urbanization lead to land use modification increasing exploitation of scarce water resources and subsequent increase in generation of waste water discharges and surface runoff. Rainwater harvesting is the age-old concept, which holds immense potential in the current times in controlling runoff and resulting water logging problems besides assuring an alternative source of water and a supplement to existing natural resources in a wide variety of circumstances.

Rainwater harvesting is a method for conservation of water for various purposes. The basic aim of the method is to force percolation of rainwater in the monsoon season into the soil. The rainwater from roofs, as well as surface runoff from open spaces is diverted using down take pipes and gutters, to a specially designed collection chamber.

The water percolates through the gravel in this chamber, leaving the silt behind. This water first fills the depths of the bore well and then finds its way to natural underground aquifers. Any excess water from the collection chamber may be diverted to the natural pond/nala, to avoid the rare possibility of over flooding and backwash.

The recharge bore wells complement the natural water-cycle and helps to augment the maximum possible groundwater reserves by active groundwater movement. As and when water is pumped out for use from production bore wells, this retained water from aquifers and subsoil strata percolates into the bore wells, maintaining a steady static water level. This increases availability and reliability of groundwater resources in our land.

Field Work

In order to acquire data for rainwater harvesting, we have to use latest technology in identifying hydro geologically potential zones. We will have to conduct extensive studies to identify such zones in and around the premises. Topographical studies are done to thoroughly delineate groundwater favourable zones based on lineaments, shallow prospective zones etc. Geophysical survey needs to be conducted to study the sub-surface geological formation and the thickness of porous and permeable zones to accommodate the recharge.

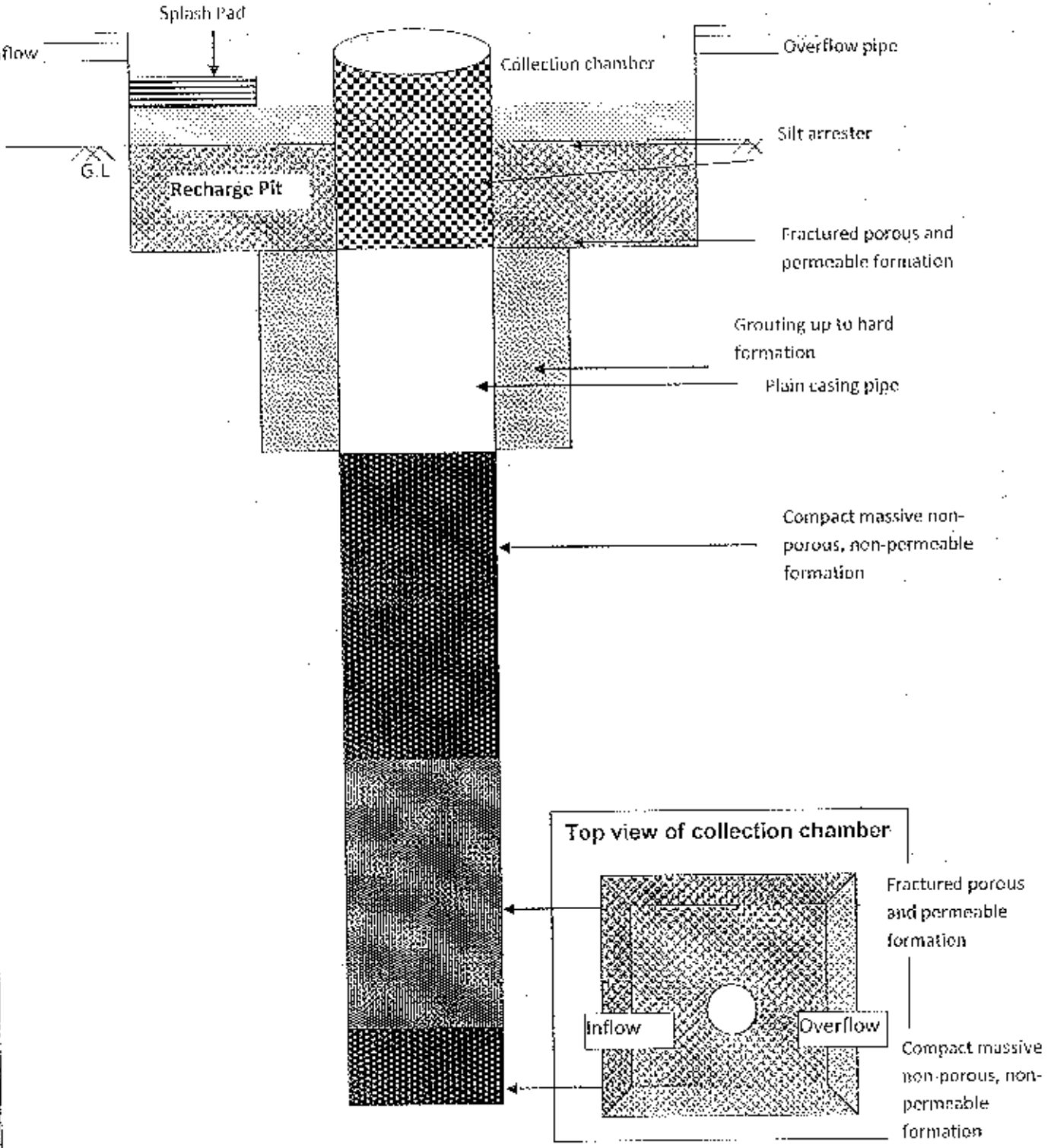
Highly favourable zones, which can help for recharge, are identified. Based on subsurface lithology, drainage pattern, possibility of roof water and surface runoff generation, suitable recharge structures are designed. Utmost care shall have to take in creating artificial recharge structures. Study has to be done with respect to the various structures in relation to the average expected rainwater collection and its minor variability, the recharge bore well shall have to be provided with gravel packed pit and collection chamber above the suitable structure for this site.

Benefits of Rain Water Harvesting

By implementing rainwater harvesting on the site, the following benefits may be obtained:

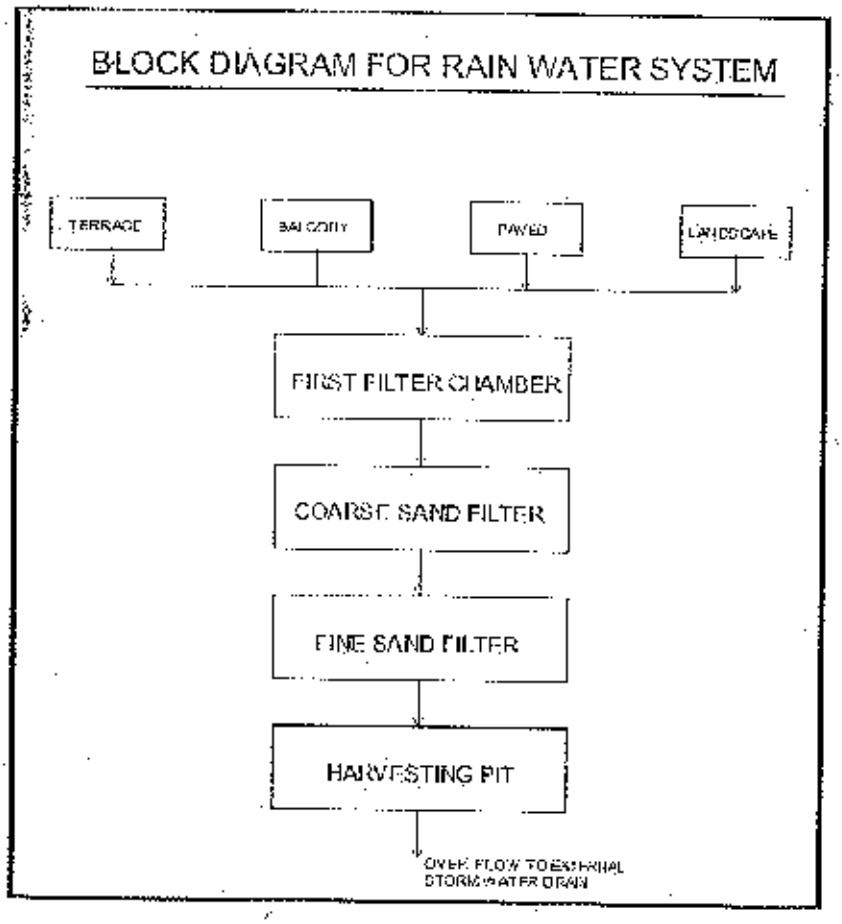
- Proper utilization of available runoff to facilitate withdrawal
- Improves sustainability to nearby groundwater structure
- Reduces surface runoff, preventing choking and over-flooding of storm drains
- Flooding and water stagnation on roads and open areas is avoided.
- Reduction in groundwater pollution
- Groundwater storage is well augmented, and it can supplement the domestic requirement during summer

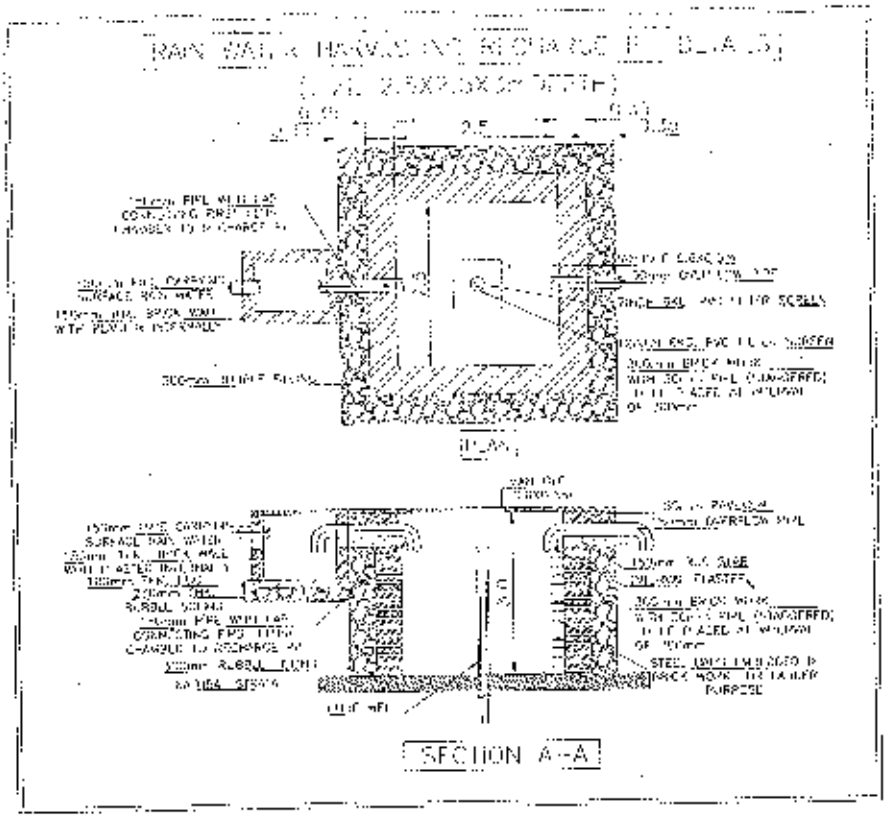
Schematic of Drawing of Recharge Pit with Bore Well:-



Recommended rain water harvesting and recharging strategic.

- Percolation test should be carried out on proposed recharge bore well.
- Uncertain rainfall itself indicates that necessity of aquifer recharging by rain water.
- Recharge system should be operative throughout year.
- Rain water should not overflow form recharge bore well. The excess water should be drain out in nearby existing stream.
- The clean rain water should be recharge to the aquifer and avoid aquifer pollution.
- The rain water other than roof top terrace should be filters and then drain out in to nearby stream.





We are considered having this 10number recharge pit the total volume of water which will be we are assuring of so much of water is charged into the ground.

= 61887.0 / 10 = 6188.7 M^3 per bore per annum if considered 60 rainy days per year.

An average recharge capacity per bore well will be 103.14 M^3 per day (approx.).

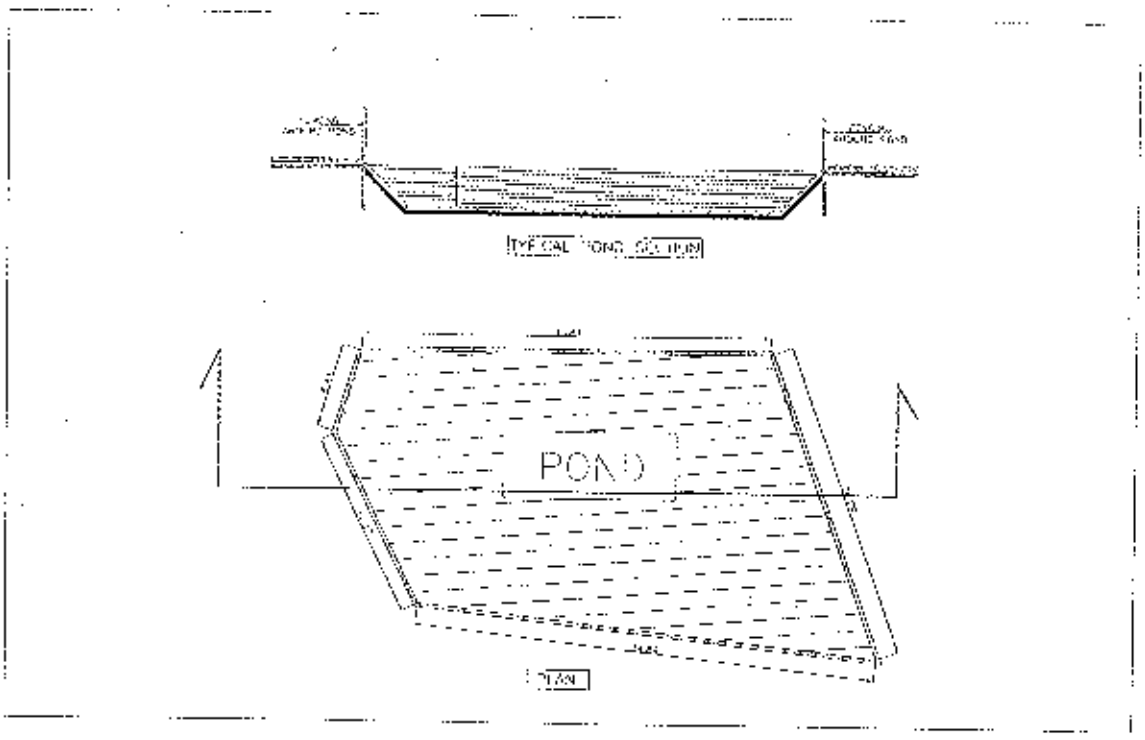
According to above we have done around 10 lac liter of water recharge into ground with providing 10 number of recharge pits and bore wells.

However, we do recommend rain water harvesting tank for south-west zone of rectangular shape and capacity of 2040 M3 up to 3.0M water depth.

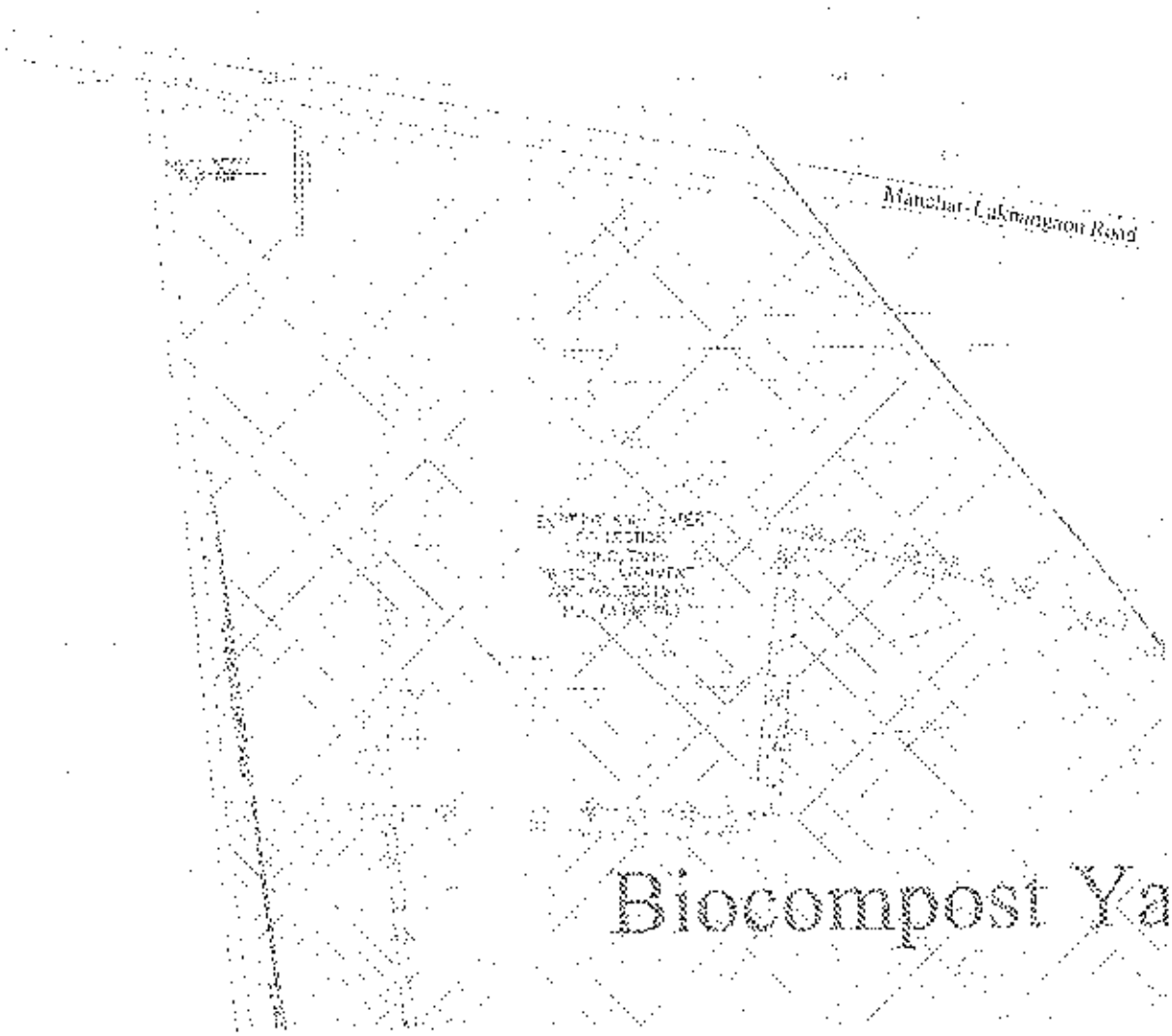
Also, we are using existing natural pond for water collection and storage of rain water, capacity around 30018.00 M3 with water depth of 3.0M.

Conclusions: -

1) Proposed Storage Tank

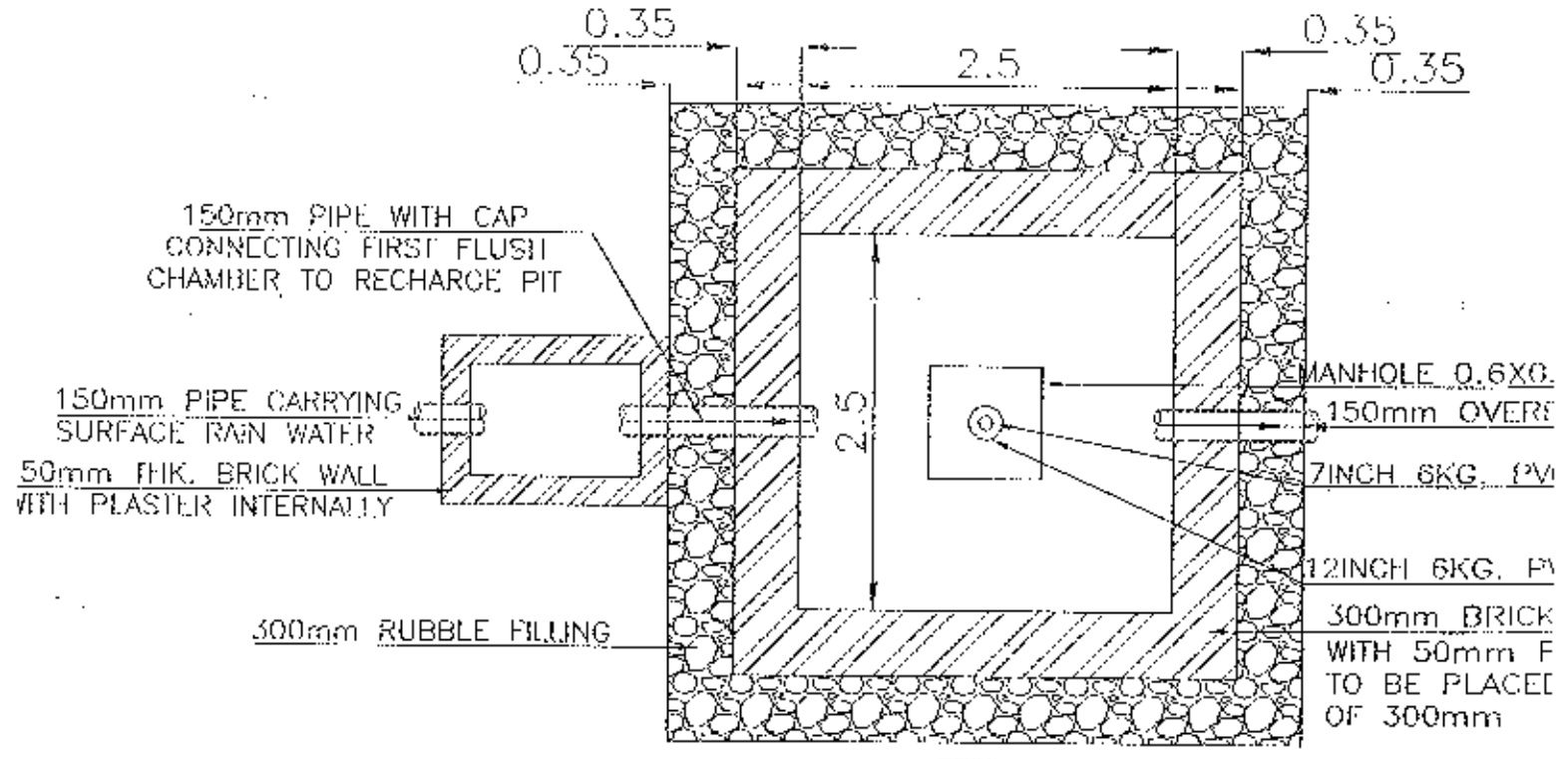


2) Existing Rain water storage Tank/ Pond

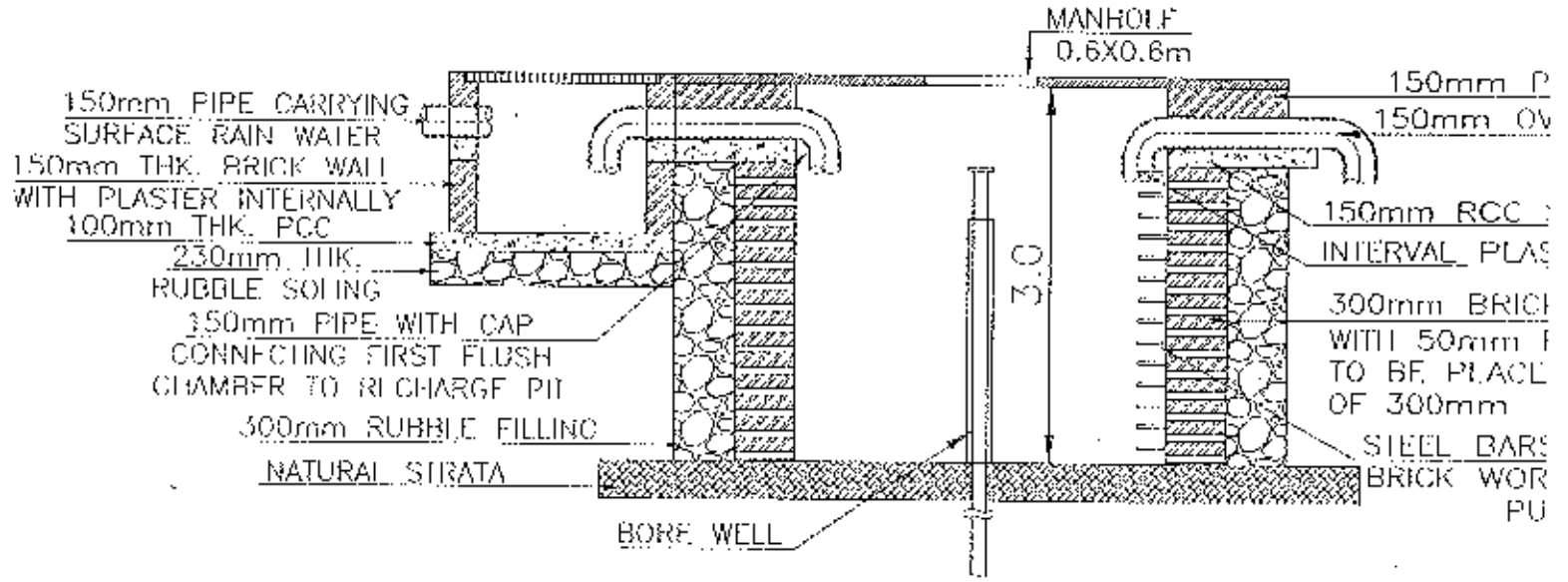


RAIN WATER HARVESTING RECHARGE PIT DE

(SIZE 2.5X2.5X3mDEPTH)



PLAN



SECTION A–A

AKANKSHA ANALYTICAL & RESEARCH LAB

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- ISO 9001 : 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

TEST REPORT

NAME OF COMPANY & ADDRESS:
M/s. Bhima Shankar sahakari sakhar karkhana Ltd.
Dattatrayanagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. – Pune-412406

		Report No	AL/TR/38-238/2020-21
		Report Date	10/12/2020
		Inward No	12-15
		Inward Date	28/11/2020
Sample Detail	Well water-Dnyaneshwar Dhoble Home	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	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 CaCO3	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 Argentrometric Method
11.	Sulphate as SO_4^{2}	mg/lit	5.77	≤200	APHA-23rd Edition 2017-E-SO_4^{2}
12.	Total Alkalinity as CaCO3	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.**
- **The contents of this test report shall not be reproduced in part or without written approval of lab incharge.**
- **BDL- Below Detectable Limit**

Aishwarya.

Verified by
(Analyst)

Authorized Signatory

...End of test report...

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TEST REPORT

NAME OF COMPANY & ADDRESS:
M/s. Bhima Shankar sahakari sakhar karkhana Ltd.
Dattatraynagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. – Pune-412406

Sample Detail	Well water-Nivrutti Dhoble	Report No	AL/TR/30-239/2020-21
Sample Collected By	Party	Report Date	10/12/2020
Sample Volume	2250 ml	Inward No	12-16
		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-10)
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 Electrometric Method
6.	Total Dissolved Solids	mg/lit	895	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO3	mg/lit	448	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	124	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	32.8	≤30.0	APHA 23rd Edition 2017 3500-Mg B Calculation method
10.	Chlorides as Cl	mg/lit	64.5	≤250	IS3025(Part-32) RA 2009 Argentometric Method
11.	Sulphate as SO_4^{2-}	mg/lit	5.25	≤200	APHA-23rd Edition 2017-E-SO_4^{2-}
12.	Total Alkalinity as CaCO3	mg/lit	316	≤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

REMARK-

- **As per Specified above analysis water sample is not within the desirable limits.**
- **Sample will be preserve for seven days after analysis.**
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- **BDL- Below Detectable Limit**

Verified by
(Analyst)

Authorised Signatory

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | **Phone :** 020-24240030 | **Email :** akankshalab2007@gmail.com

AKANKSHA ANALYTICAL & RESEARCH LAB

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- ISO 9001 : 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

TEST REPORT

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/38-236/2020-21
		Report Date	10/12/2020
		Inward No	12-13
		Inward Date	28/11/2020
Sample Detail	Well water-Yogesh Pingale Home	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	0.02	<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	1528	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO3	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 23rd Edition 2017 3500-Mg B Calculation method
10.	Chlorides as Cl	mg/lit	139	<250	IS3025(Part-32) RA 2009 Argentometric Method
11.	Sulphate as SO_4^{2-}	mg/lit	5.77	≤200	APHA-23rd Edition 2017-E-SO_4^{2-}
12.	Total Alkalinity as CaCO3	mg/lit	490	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO_3	mg/lit	3.56	≤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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Verified by
(Analyst)

Authorized Signatory

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | Phone : 020-24240030 | Email : akankshalab2007@gmail.com

AKANKSHA ANALYTICAL & RESEARCH LAB

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TEST REPORT

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/38-237/2020-21
		Report Date	10/12/2020
		Inward No	12-14
		Inward Date	28/11/2020
Sample Detail	Borewell Water-Shingave 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	4.75	≤200	APHA-23rd Edition 2017-E-SO_4^{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 20174500-B-NO_3
14.	Iron as Fe	mg/lit	DDL	≤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.**
- **The contents of this test report shall not be reproduced in part or without written approval of lab incharge.**
- **BDL- Below Detectable Limit**

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(Analyst)

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Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | **Phone :** 020-24240030 | **Email :** akankshalab2007@gmail.com

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TEST REPORT

NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar sahakari saldhar karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. – Pune-412406		**Report No**	AL/TR/38-658/2020-21
		Report Date	08/01/2021
		Inward No	12-451
		Inward Date	30/12/2020
Sample Detail	Well water-South east bhimashankar hotel	**Analysis Start date**	01/01/2021
Sample Collected By	Party	**Analysis End date**	05/01/2021
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	0.10	≤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) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1893	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO3	mg/lit	912	≤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	64.5	≤30.0	APHA 23rd Edition 2017 3500-Mg B 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	7.97	<200	APHA-23rd Edition 2017-E-SO_4^{2}
12.	Total Alkalinity as CaCO3	mg/lit	521	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO_3	mg/lit	3.52	≤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.**
- **The contents of this test report shall not be reproduced in part or without written approval of lab incharge.**
- **BDL- Below Detectable Limit**

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Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | **Phone :** 020-24240030 | **Email :** akankshalab2007@gmail.com

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TEST REPORT

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/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	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	0.90	≤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 CaCO3	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-E-SO_4^{2-}
12.	Total Alkalinity as CaCO3	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-

- **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**

Verified by
(Analyst)

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TEST REPORT

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/38-662/2020-21
		Report Date	08/01/2021
		Inward No	12-455
		Inward Date	30/12/2020
Sample Detail	Borewell water- North East Vitthal Dhobie	Analysis Start date	01/01/2021
Sample Collected By	Party		
Sample Volume	2250 ml	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	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 Electrometric Method
6.	Total Dissolved Solids	mg/lit	2370	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO3	mg/lit	662	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	249	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	9.22	≤30.0	APHA 23rd Edition 2017 3500-Mg B Calculation method
10.	Chlorides as Cl	mg/lit	99.3	≤250	IS3025(Part-32) RA 2009 Argentometric Method
11.	Sulphate as SO_4^{2}	mg/lit	11.2	≤200	APHA-23rd Edition 2017-E-SO_4^{2}
12.	Total Alkalinity as CaCO3	mg/lit	399	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO_3	mg/lit	3.54	≤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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TEST REPORT			Page 1 of 1
NAME OF COMPANY & ADDRESS:		**Report No**	AL/TR/38-659/2020-21
M/s. Bhima Shankar sahakari sakhar karkhana Ltd.		**Report Date**	08/01/2021
Dattatraynagar, Pargaon Village Awasari Bk. Tal.- Ambegaon, Dist. – Pune-412406		**Inward No**	12-452
		Inward Date	30/12/2020
Sample Detail	Well water-North west tanishka hotel	**Analysis Start date**	01/01/2021
Sample Collected By	Party	**Analysis End date**	05/01/2021
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	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 CaCO3	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-E-SO_4^{2}
12.	Total Alkalinity as CaCO3	mg/lit	543	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO_x	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

REMARK-

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- **BDL- Below Detectable Limit**

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TEST REPORT

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/38-661/2020-21
		Report Date	08/01/2021
		Inward No	12-454
		Inward Date	30/12/2020
Sample Detail	Well water-Dattu Walse	**Analysis Start date**	01/01/2021
Sample Collected By	Party	**Analysis End date**	05/01/2021
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	0.40	≤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 CaCO3	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	88.1	≤200	APHA-23rd Edition 2017-E-SO_4^{2}
12.	Total Alkalinity as CaCO3	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-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**

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TEST REPORT

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/39-060/2020-21
		Report Date	02/02/2021
		Inward No	1-383
		Inward Date	25/01/2021
Sample Detail	Well Water- Colony Area (South East)	**Analysis Start date**	28/01/2021
Sample Collected By	Party	**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	0.60	≤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 CaCO3	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 23rd 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-23rd Edition 2017-E-SO_4^{2-}
12.	Total Alkalinity as CaCO3	mg/lit	329	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO_3	mg/lit	2.72	≤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 ReaffC2014
16.	Fecal Coliform	MPN Index/100ml	Present	Absent	IS1622:1981 ReaffC2014
17.	E- Coli	CFU/ml	Present	Absent	IS1622:1981 ReaffC2014

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.**
- **The contents of this test report shall not be reproduced in part or without written approval of lab incharge.**
- **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, Pargaon Village-Awasari Bk. Tal. Ambegaon, Dist. Pune-412406		**Report No**	AL/TR/39-059/2020-21
		Report Date	02/02/2021
		Inward No	1-382
		Inward Date	25/01/2021
Sample Detail	Well Water- Ramnath Jadhav (South west)	**Analysis Start date**	28/01/2021
Sample Collected By	Party	**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	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 Electrometric 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 SO_4^{2}	mg/lit	4.92	≤200	APHA-23rd Edition 2017-E-SO_4^{2}
12.	Total Alkalinity as CaCO3	mg/lit	419	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO_3	mg/lit	3.68	≤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.**
- **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 Bk. Tal.- Ambegaon, Dist. – Pune-412406		**Report No**	AL/TR/39-058/2020-21
		Report Date	02/02/2021
		Inward No	1-381
		Inward Date	25/01/2021
Sample Detail	Well Water-Santosh Dhoble(North East)	**Analysis Start date**	28/01/2021
Sample Collected By	Party	**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	0.30	≤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 CaCO3	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	7.00	≤200	APHA-23rd Edition 2017-E-SO_4^{2-}
12.	Total Alkalinity as CaCO3	mg/lit	488	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO_3	mg/lit	3.68	≤45.0	APHA 23rd Edition 20174500-E-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, Pargaon Village-Awasari BK.Tal.- Ambegaon, Dist. – Pune-412406		**Report No**	AL/TR/39-061/2020-21
		Report Date	02/02/2021
		Inward No	1-384
		Inward Date	25/01/2021
Sample Detail	Well Water- Suresh Pingle(North West)	**Analysis Start date**	28/01/2021
Sample Collected By	Party	**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	6518	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 CaCO3	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 23rd 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-23rd Edition 2017-E-SO_4^{2-}
12.	Total Alkalinity as CaCO3	mg/lit	703	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO_3	mg/lit	3.69	<45.0	APHA 23rd Edition 20174500-H-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

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/39-062/2020-21
		Report Date	02/02/2021
		Inward No	1-385
		Inward Date	25/01/2021
Sample Detail	Well Water- Shivaji Ponde	**Analysis Start date**	28/01/2021
Sample Collected By	Party	**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	0.20	≤1.0	IS3025(Part-10)
4.	Conductivity	uMHOs/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 CaCO3	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 CaCO3	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:		Report No	AL/TR/39-442/2020-21
M/s. Bhima Shankar sahakari saldhar karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. – Pune-412406		Report Date	03/03/2021
		Inward No	2-323
		Inward Date	22/02/2021
Sample Detail	Borewell water-Nandu Sable East Side	Analysis Start date	24/02/2021
Sample Collected By	Party	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	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.88	≤1.0	IS3025(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 CaCO3	mg/lit	1089	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	297	≤75.0	IS3025(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	IS3025(Part-32) RA 2009 Argentometric Method
11.	Sulphate as SO_4^{2-}	mg/lit	97.0	<200	APHA-23rd Edition 2017-E SO_4^{2-}
12.	Total Alkalinity as CaCO3	mg/lit	467	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO_3	mg/lit	2.42	≤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	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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- **BDL- Below Detectable Limit.**
- **N.S-Not Specified.**

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TEST REPORT

NAME OF COMPANY & ADDRESS:		**Report No**	AL/TR/39-441/2020-21
M/s. Bhima Shankar sahakari sakhar karkhana Ltd.		**Report Date**	03/03/2021
Dattatraynagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. – Pune-412406		**Inward No**	2-322
		Inward Date	22/02/2021
Sample Detail	Well water-Rohidas Bhagwat West Side	**Analysis Start date**	24/02/2021
Sample Collected By	Party	**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	Hazen	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 CaCO3	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 23rd 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-23rd Edition 2017-E-SO_4^{2}
12.	Total Alkalinity as CaCO3	mg/lit	536	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO_3	mg/lit	7.24	≤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	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:
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Dattatraynagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. - Pune-412406

Sample Detail	Well Water-Raoudas Thorat North Side	**Report No**	AL/TR/39-443/2020-21
Sample Collected By	Party	**Report Date**	03/03/2021
Sample Volume	2250 ml	**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

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	1035	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 23rd Edition 2017 3500-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-23rd Edition 2017 E SO_4^{2-}
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 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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- **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 Bk. Tal.- Ambegaon, Dist. – Pune 412406

		Report No	AL/TR/39-440/2020-21
		Report Date	03/03/2021
		Inward No	2-321
		Inward Date	22/02/2021
Sample Detail	Borewell water-Shankar Datir South Side	**Analysis Start date**	24/02/2021
Sample Collected By	Party	**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	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 CaCO3	mg/lit	812	≤200	IS3025(Part-21) RA 2014 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 CaCO3	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 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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- **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 Bk. Tal.- Ambegaon, Dist. - Pune-412406

Sample Detail	River water Sangam
Sample Collected By	Party
Sample Volume	2250 ml

Report No	AL/TR/39-445/2020-21
Report Date	03/03/2021
Inward No	2-326
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	0.88	≤1.0	IS3025(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 CaCO3	mg/lit	248	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	75.2	<75.0	IS3025(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	IS3025(Part-32) RA 2009 Argentometric Method
11.	Sulphate as SO_4^{2}	mg/lit	4.41	≤200	APHA-23rd Edition 2017- E SO_4^{2}
12.	Total Alkalinity as CaCO3	mg/lit	217	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO_3	mg/lit	1.98	≤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.**
- **The contents of this test report shall not be reproduced in part or without written approval of lab incharge.**
- **BDL- Below Detectable Limit.**
- **N.S-Not Specified.**

Verified by
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TEST REPORT			Page 1 of 1
NAME OF COMPANY & ADDRESS:		**Report No**	AL/TR/39-444/2020-21
M/s. Bhima Shankar sahakari sakhar karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. – Pune-412406		**Report Date**	03/03/2021
		Inward No	2-325
		Inward Date	22/02/2021
Sample Detail	Karkhana Raw Water	**Analysis Start date**	24/02/2021
Sample Collected By	Party	**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	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	487	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO3	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	38.0	≤30.0	APHA 23rd 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-23rd Edition 2017-E-SO_4^{2-}
12.	Total Alkalinity as CaCO3	mg/lit	205	≤200	IS3025(Part-23)RA 2009
13.	Nitrate as NO_3^-	mg/lit	2.08	<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	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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- **The contents of this test report shall not be reproduced in part or without written approval of lab incharge.**
- **BDL- Below Detectable Limit.**
- **N.S-Not Specified.**

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TEST REPORT

NAME OF COMPANY& ADDRESS:
M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.
Dattatrayanagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. – Pune-412406

Report No	AL/TR/39-980/2021-22
Report Date	03/04/2021
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

Sample Detail	Well Water North Side shri. Dama Dhobate
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	0.84	≤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 CaCO3	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 CaCO3	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 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.**
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- **The contents of this test report shall not be reproduced in part or without written approval of lab incharge.**
- **BDL- Below Detectable Limit.**
- **N.S-Not Specified.**

Nishwaya

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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	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	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 CaCO3	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	88.8	≤30.0	APHA 23rd 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 CaCO3	mg/lit	308	≤200	IS3025(Part-23)RA 2009
12.	Sulphate as SO_4^{-2}	mg/lit	24.9	≤200	APHA-23rd Edition 2017-E-SO_4^{-2}
13.	Nitrate as NO_3	mg/lit	5.89	≤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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- **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.**
- **N.S-Not Specified.**

Verified by
(Analyst)

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TEST REPORT

NAME OF COMPANY & ADDRESS:
M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.
Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. – Pune-412406.

Sample Detail	Borewell East Side Shri.Mauli Shete	**Report No**	AL/TR/39-986/2021-22
Sample Collected By	Party	**Report Date**	03/04/2021
Sample Volume	2250 ml	**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

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	0.77	≤1.0	IS3025(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 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1258	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Total Hardness as CaCO3	mg/lit	760	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
8.	Calcium as Ca	mg/lit	180	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
9.	Magnesium as Mg	mg/lit	69.6	≤30.0	APHA 23rd Edition 2017 3500-Mg B Calculation method
10.	Chlorides as Cl	mg/lit	44.6	≤250	IS3025(Part-32) RA 2009 Argentometric Method
11	Total Alkalinity as CaCO3	mg/lit	455	≤200	IS3025(Part-23)RA 2009
12.	Sulphate as SO_4^{2}	mg/lit	58.2	≤200	APHA-23rd Edition 2017-E-SO_4^{2}
13.	Nitrate as NO_3	mg/lit	6.03	≤45.0	APHA 23rd Edition 20174500-E-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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- **N.S-Not Specified.**

Verified by
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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
Analysis End date	02/04/2021
Sample Condition	Fit For Analysis

Sample Detail	Well Water West Side Shri. Ganesh Borage
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	1.01	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	2287	N.S	IS 3025 (Part 14):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 CaCO3	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 23rd 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 CaCO3	mg/lit	821	≤200	IS3025(Part-23)RA 2009
12.	Sulphate as SO_4^{2}	mg/lit	8.81	≤200	APHA-23rd Edition 2017-E-SO_4^{2}
13.	Nitrate as NO_3	mg/lit	9.53	≤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

NAME OF COMPANY& ADDRESS: **M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.** Dattatrayanagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. – Pune-412406		**Report No**	AL/TR/39-990/2021-22
		Report Date	03/04/2021
		Inward No	3-456
		Inward Date	28/03/2021
Sample Detail	Borewell Near KarkhanaShri. Somnath Sable	**Analysis Start date**	30/03/2021
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	0.96	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	1343	N.S	IS 3025 (Part 14):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 CaCO3	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 CaCO3	mg/lit	422	≤200	IS3025(Part-23)RA 2009
12.	Sulphate as SO_4^{-2}	mg/lit	44.4	≤200	APHA-23rd Edition 2017-E-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

REMARK-

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

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Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | **Phone :** 020-24240030 | **Email :** akankshalab2007@gmail.com

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TEST REPORT

NAME OF COMPANY & ADDRESS:
M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.
Dattatrayanagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. Pune-412406.

Report No	AL/TR/40 315/2021;22
Report Date	30/04/2021
Inward No	4-316
Inward Date	23/04/2021
Analysis Start date	24/04/2021
Analysis End date	28/04/2021
Sample Condition	Fit For Analysis

Sample Detail	Borewell Water- Balshriram wawal South west
Sample Collected By	Party
Sample Volume	22.50 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	1.08	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	10230	N.S	IS 3025 (Part 14):2013
B)	CHEMICAL ANALYSIS				
5.	pH @ 25°C	---	7.70	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-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.
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- The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- BDL- Below Detectable Limit,
- N.S-Not Specified.

Authorized Signatory

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Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibwewadi, Pune 411037. | Phone : 020-24240030 | Email : akankshalab2007@gmail.com

AKANKSHA ANALYTICAL & RESEARCH LAB

- Accredited by Ministry of Power & Power Laboratory Council (MoEF&CC), New Delhi
- ISO 9001 : 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

TEST REPORT

NAME OF COMPANY& ADDRESS:
M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.
Dattanagar, Paryaon Village Awasari Bk Tal.- Ambegaon, Dist. - Pune-412306

Sample Detail	Well water-Sakharam takalmith wes
Sample Collected By	Party
Sample Volume	2250 ml

Report No	AL/TR/70-316/2021-22
Report Date	30/04/2021
Inward No	4-317
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	0.95	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	2707	N.S	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 Electrometric Method
6.	Total Dissolved Solids	mg/lit	307	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	29.7	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as $CaCO_3$	mg/lit	157	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as $CaCO_3$	mg/lit	140	≤200	IS3025(Part 21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	24.0	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	19.2	≤30.0	APHA 23rd Edition 2017 3500 Mg B Calculation method
12.	Sulphate as SO_4^{2-}	mg/lit	5.94	≤200	APHA-23rd Edition 2017-E-SO_4^{2-}
13	Nitrate as NO_3	mg/lit	1.30	≤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-

- As per Specified above analysis water sample is not within the desirable limits.
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- BDL- Below Detectable Limit.
- N.S-Not Specified.

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Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase2, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037 | Phone : 020-24200301 Email : akankshla2007@gmail.com

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AKANKSHA ANALYTICAL & RESEARCH LAB

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

TEST REPORT

NAME OF COMPANY& ADDRESS:-
M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.
Dattatrayanagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. - Pune-412406

Sample Detail	Well water-Sunil Pingale South East
Sample Collected By	Party
Sample Volume	2250 ml

Report No	AL/TR/40-317/2021-22
Report Date	30/04/2021
Inward No	4-318
Inward Date	23/04/2021
Analysis Start date	24/04/2021
Analysis End date	26/04/2021
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	0.87	≤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	947	<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-21) RA 2014 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	40.8	<30.0	APHA 23rd Edition:2017-3500-Mg B Calculation method
12.	Sulphate as SO_4^{2-}	mg/lit	6.78	≤200	APHA-23rd Edition 2017-E-SO_4^{2-}
13.	Nitrate as NO_3^-	mg/lit	2.70	≤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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- N.S-Not Specified.

Authorized Signatory

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AKANKSHA ANALYTICAL & RESEARCH LAB

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- ISO 9001 : 2015 Certified Organization

TEST REPORT

NAME OF COMPANY& ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatrayanagar, Pargaon Village Awasari Bk. Tal. Ambegaon, Dist. - Pune 412406		Report No	AL/TR/46-316/2021-22
		Report Date	30/04/2021
		Inward No	4-319
		Inward Date	22/04/2021
Sample Detail	Well Water Kisan Walse North West	Analysis Start date	24/04/2021
Sample Collected By	Party	Analysis End date	29/04/2021
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	0.96	≤1.0	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	8173	N.S	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	7706	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chloride as Cl	mg/lit	645	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO3	mg/lit	315	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO3	mg/lit	430	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	68.0	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	62.4	≤30.0	APHA 23rd Edition 2017 3500-Mg B Calculation method
12.	Sulphate as SO_4^{2-}	mg/lit	27.1	≤200	APHA-23rd Edition 2017 E-SO_4^{2-}
13.	Nitrate as NO_3	mg/lit	6.12	≤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.

Authorized Signatory

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Ganeshram Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | Phone : 020 24240020 | Email : akanksha4242007@gmail.com

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AKANKSHA ANALYTICAL & RESEARCH LAB

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- ISO 45001 : 2018 Certified Organization

TEST REPORT

NAME OF COMPANY& ADDRESS:
M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.
Dattatraynagar, Pargaon Village Awasari Bk Tal.- Ambegaon, Dist. - Pune-412306

Sample Detail	Well water-Vijay Walse North East	Report No	AL/TR/40-319/2021-22
Sample Collected By	Party	Report Date	30/04/2021
Sample Volume	2250 ml	Inward No	4-320
		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	726B	N.S	IS 3025 (Part 14):2013
B)	CHEMICAL ANALYSIS				
5.	pH @ 25°C	---	7.05	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.	Chorides as Cl	mg/lit	69.5	<250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO3	mg/lit	273	<200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO3	mg/lit	350	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	40.0	≤75.0	IS3025(Part-40) RA 2009:EDTA Method
11.	Magnesium as Mg	mg/lit	56.2	<30.0	APHA 23rd Edition 2017:3500-Mg B Calculation method
12.	Sulphate as SO_4^{2-}	mg/lit	26.6	≤200	APHA-23rd Edition 2017-E-SO_4^{2-}
13.	Nitrate as NO_3	mg/lit	6.81	≤45.0	APHA 23rd Edition 2017:4500-E-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.**
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- **Above analysis results are related to its testing.**
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- **BDL- Below Detectable Limit.**
- **N.S-Not Specified.**

Authorized Signatory

...End of test report...

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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 Godaun	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)

Authorized Signatory

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | **Phone :** 020-24240030 | **Email :** akankshalab2007@gmail.com

AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT

NAME OF COMPANY:-
M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.
Dattatraynagar, Pargaon,
Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406

Sample Location	Company Premises
Sample Collected By	AARL

Report No	AL/TR/57-944/20-21
Report Date	08/01/2021
Inward No	AL/6-905/09/20-21
Inward Date	30/12/2020
Sampling Time	02:00 PM To 02:30 PM
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 Bus 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

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

Verified by
(Analyst)

Authorized Signatory

...End of test report...

AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT

NAME OF COMPANY:-		**Report No**	AL/TR/58-239/20-21
M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.		**Report Date**	04/02/2021
Dattatraynagar, Pargaon,		**Inward No**	AL/6-929/09/20-21
Village-Awasari Bk., Tal. - Ambegaon,Dist. - Pune-412 406		**Inward Date**	25/01/2021
Sample Location	Company Premises	**Sampling Time**	01:00PM To01:30 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)	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 & 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...

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/58-597/20-21
		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 Bas 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...

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AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT

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/59-243/21-22
Report Date	05/04/2021
Inward No	AL/7-20/09/21-22
Inward Date	28/03/2021
Sampling Time	02:30PM To 03:00 PM
Time duration	30 Min

Sample Location	Company Premises
Sample Collected By	AARL

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.**

Verified by
(Analyst)

Authorized Signatory

...End of test report...

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

Authorized Signatory

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 11, Gangadham Phase I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | Phone : 020-24240230 | Email : akankshalab2007@gmail.com

वन परिक्षेत्र अधिकारी, मंचर(प्रा) यांचे कार्यालय
वनस्पतिशास्त्र उद्यान, अवसरी खाद तालुका आंबेगाव, जिल्हा पुणे
E- Mail rfomanchar@gmail.com

विषय - झाडांमधील अंतर प्रमाणित करून मिळणेबाबत..

जा./क्र./संकिर्ण/ १७६८ /२०१९ - २०

मंचर ४१०५०३ दिनांक - ०२/१२/२०१९

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

वरील विषयी वनपाल धामणी व वनरक्षक लाखणगाव यांनी श्रीमाशंकर सहकारी साखर कारखाना परिसरात व सभोवताली १९.५३ हे.क्षेत्रात ६५०२ वृक्ष लागवड केलेल्या सोबत दर्शविलेल्या यादीतील फळझाडे इ.आंबा,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.

जाक्र/तालुका/ विस्तार/[illegible]/२०१९
तालुका कृषि अधिकारी ,आंबेगाव
(घोडेगाव) दि. ३ /१२ /२०१९

प्रति ,

मा.कार्यकारी संचालक ,
भिमाशंकर सहकारी साखर कारखाना ,
पारगाव त.अवसरी बु .

विषय ---झाडांमधील अंतर प्रमाणित करून मिळणेबाबत .
संदर्भ --- भिमाशंकर सहकारी साखर कारखाना पारगाव त.अवसरी बु यांचे कडील पत्र जाक्र /शेतकरी /२३८९/१९ दिनांक २७/११/१९.

वरीलप्रमाणे संदर्भीय विषयान्वये कळविण्यात येते की , भिमाशंकर सहकारी साखर कारखाना परिसरातील कार्यक्षेत्रामध्ये जास्तीत जास्त झाडे लावुन परिसर हरीत करणेसाठी सोबत जोडलेल्या यादीप्रमाणे १२.५३ हे.आर क्षेत्रात ६५०२ वृक्ष लागवड केलेबाबतचे सहपत्र प्राप्त झाले आहे.

सदर सहपत्राचे अवलोकन केले असता सोबतच्या दोन झाडांमधील अंतर संयुक्तीक असलेचे प्रमाणित करणेत येत आहे.

तालुका कृषि अधिकारी
आंबेगाव (घोडेगाव) जि.पुणे

श्रीमाताकर सहकारी साखर कारखाना लि., [illegible]

पारनेर तर्फे अहमदनगर [illegible], [illegible], जि.पुणे.

झाडांची नावे व अंतर तपशील

अ.क्र.	झाडांची नावे	वृक्ष लागवड (संख्या)				प्रति वृक्ष आवश्यक अंतर (मी. X मी.)	प्रति वृक्ष (स्क्वेअर मी.)	वृक्ष लागवड क्षेत्र (हे.आर)
		२०१७-१८ (पुर्वीची)	२०१८-१९	२०१९-२०	आज अखेर एकूण			
१	[illegible]	१७०	०	०	१७०	5 X 5	२५	०.४३
२	आंबा	९९	१०५	५५	१७९	10 X 10	१००	१.७९
३	चिकू	१८	०	०	५८	9 X 9	८१	०.४७
४	अवळा	३	५	०	८	6 X 6	३६	०.०३
५	फणस	७	०	०	७	8 X 8	६४	०.०४
६	कागदी लिंबु	२२	०	०	२२	5 X 5	२५	०.०६
७	सिताफळ	१३९	०	०	१३९	4 X 4	१६	०.२२
८	पेरु	२९	०	०	२९	6 X 6	३६	०.१०
९	जांभुळ	२८	०	२५	५३	6 X 6	३६	०.१९
१०	चिंच	७	४०	६५०	६९७	8 X 8	६४	४.४६
११	डाळिंब	५	०	०	५	4 X 4	१६	०.०१
१२	फणस	६	०	०	६	6 X 6	३६	०.०२
१३	बोर	११	०	०	११	4 X 4	१६	०.०२
१४	गुलमोहर	२३	५०	०	७३	8 X 8	६४	०.४७
१५	रेन ट्री	१६	११०	०	१२६	8 X 8	६४	०.८१
१६	बॉटल पाम	२४१	२२	५०	३१३	5 X 5	२५	०.७८
१७	फिलोशिया पाम	१४	३	०	१७	5 X 5	२५	०.०४
१८	सप्तपर्णी	५२	४८	०	१००	8 X 8	६४	०.६४
१९	पिल मोहर	१७	५६	०	७३	8 X 6	६४	०.४७
२०	वट	१२०	६	०	१२६	10 X 10	१००	१.२६
२१	अर्जुन	२९	२०	०	४९	8 X 8	६४	०.३१
२२	सिल्वर ओक	६	०	०	६	5 X 5	२५	०.०२
२३	कशिद	३५	३५	१०५	१७५	8 X 8	६४	१.१२
२४	सिराम	१२५	२०	०	१४५	8 X 8	६४	०.९३
२५	गिरिपुष्प	१७	०	०	१७	8 X 8	६४	०.११
२६	फायकस	०	५०	०	५०	4 X 4	१६	०.०८
२७	बाबू	१२	०	०	१२	4 X 4	१६	०.०२
२८	करंज	३३	०	९०	१२३	8 X 8	६४	०.७९
२९	बॉटल ब्रश	१९	०	०	१९	4 X 4	१६	०.०३
३०	पाम्युलिस	२००	०	९५	२९५	6 X 6	३६	१.०६
३१	बदाम	३०	०	०	३०	6 X 6	३६	०.११
३२	सुरु	३१	०	०	३१	6 X 6	३६	०.११
३३	अशोक	९९	०	०	९९	4 X 4	१६	०.१६
३४	स्पॅथोडिया	६	०	०	६	8 X 8	६४	०.०४
३५	कांचन (आपटा)	३९	०	१००	१३९	8 X 8	६४	०.८९
३६	सोनचाफा	५	०	०	५	4 X 4	१६	०.०१
३७	पांढरा चाफा	२१	०	०	२१	4 X 4	१६	०.०३
३८	उंबर	११	०	०	११	8 X 8	६४	०.०७
३९	निलगिरी	३४	०	०	३४	3 X 3	९	०.०३
४०	रामफळ	१४	०	०	१४	5 X 5	२५	०.०४
४१	सुबाभळ	२१३	०	०	२१३	4 X 4	१६	०.३४
४२	शेवगा	१४	०	०	१४	3 X 3	९	०.०१
४३	अंजीर	२	०	०	२			
४४	भांगरा	३	०	०	३			
४५	चंदनी	७	०	०	७	4 X 4	१६	०.०१
४६	गेळी	४	०	०	४	3 X 3	९	०.००
४७	बगळ	६४	०	०	६४	6 X 6	३६	०.२३
४८	लोकार	१	०	०	१			

अ.क्र.	वनस्पती नाव	पूर्व लागवड (२०१४)				प्रति वृक्ष आवश्यक अंतर (मी. X मी.)	एकूण वृक्ष (संख्येत मी.)	एकूण लागवड क्षेत्र (हे.आर.)
		२०१४-१५ (मुदतीची)	२०१५-१६	२०१६-२०	आजच्या तारखेपर्यंत एकूण			
५१	[illegible]	८	०	०	८	3 X 3	९	०.०१
५२	[illegible]	३	०	०	३	6 X 6	३६	०.०१
५३	[illegible]	९२	०	०	९२	4 X 4	५६	०.०२
५४	[illegible]	२७	०	०	२७	8 X 8	६४	०.१७
५५	[illegible]	२	०	०	२			
५६	[illegible]	४	०	०	४			
५७	[illegible]	१	०	०	१			
५८	[illegible]	२	०	०	२			
५९	[illegible]	३६	०	०	३६	2 X 2	४	०.०१
५८	[illegible]	५	०	०	५			
५९	[illegible]	२	०	०	२			
६०	[illegible]	०	०	२५	२५	5 X 5	२५	०.०६
	एकूण	२१६३	५७०	१११५	३९२८			१९.१४
	बुरोश							
६१	[illegible]	२८	०	०	२८	2 X 2	४	०.०१
६२	[illegible]	७१	०	०	७१	2 X 2	४	०.०२
६३	[illegible]	४०२	०	०	४०२	2 X 2	४	०.१६
६४	[illegible]	१३	०	०	१३	2 X 2	४	०.०१
६५	[illegible]	३	०	०	३			
६६	[illegible]	२	०	०	२			
६७	[illegible]	२	०	०	२			
	एकूण	५२१	०	०	५२१			०.२१
	[illegible]							
६८	[illegible]	८८	०	०	८८	2 X 1.5	३	०.०३
६९	[illegible]	४३	०	०	४३	2 X 1.5	३	०.०१
७०	[illegible]	५०	०	०	५०	2 X 1.5	३	०.०२
७१	[illegible]	५३८	०	०	५३८	1.5 X 1.5	०	०.००
७२	[illegible]	८५	०	०	८५	1.5 X 1.5	[illegible]	[illegible]
७३	[illegible]	५००	०	०	५००			
७४	[illegible]	६३	०	०	६३	1.5 X 1.5	[illegible]	०.०९
७५	[illegible]	५२	०	०	५२	1 X 1	५	०.००
७६	[illegible]	३	०	०	३			
७७	[illegible]	२१२	०	०	२१२	1 X 1	५	०.०२
७८	[illegible]	२३०	०	०	२३०	1 X 1	५	०.०२
७९	[illegible]	५८	०	०	५८	1 X 1	५	०.०१
८०	[illegible]	४९	०	०	४९	1 X 1	५	०.००
८१	[illegible]	३०	०	०	३०	1 X 1	५	०.००
८२	[illegible]	७५	०	०	७५	1 X 1	५	०.०१
८३	[illegible]	२५	०	०	२५			
८४	[illegible]	५०	०	०	५०			
८५	[illegible]	२५०	०	०	२५०	1 X 1	५	०.०८
	एकूण	२०५३	०	०	२०५३			०.९९
	एकूण एकंतर	४७३७	५७०	१११५	६५०२			१९.५३

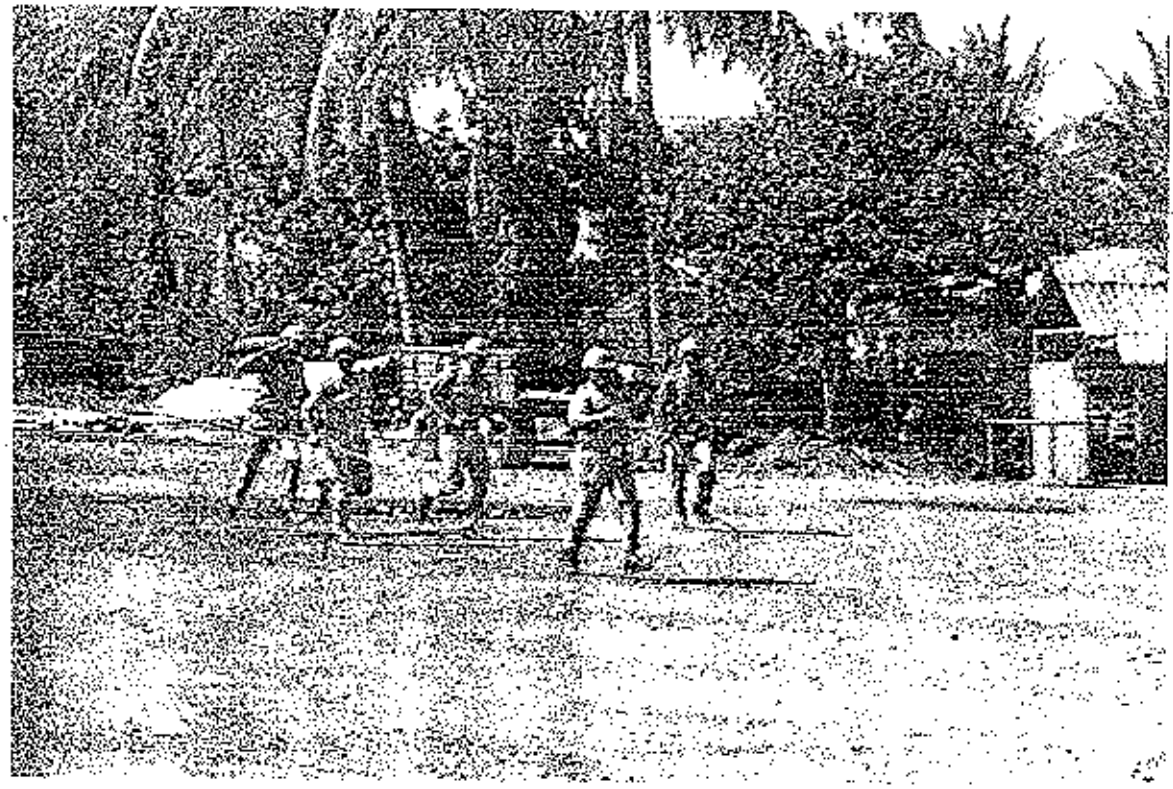
[illegible] विकास अधिकारी

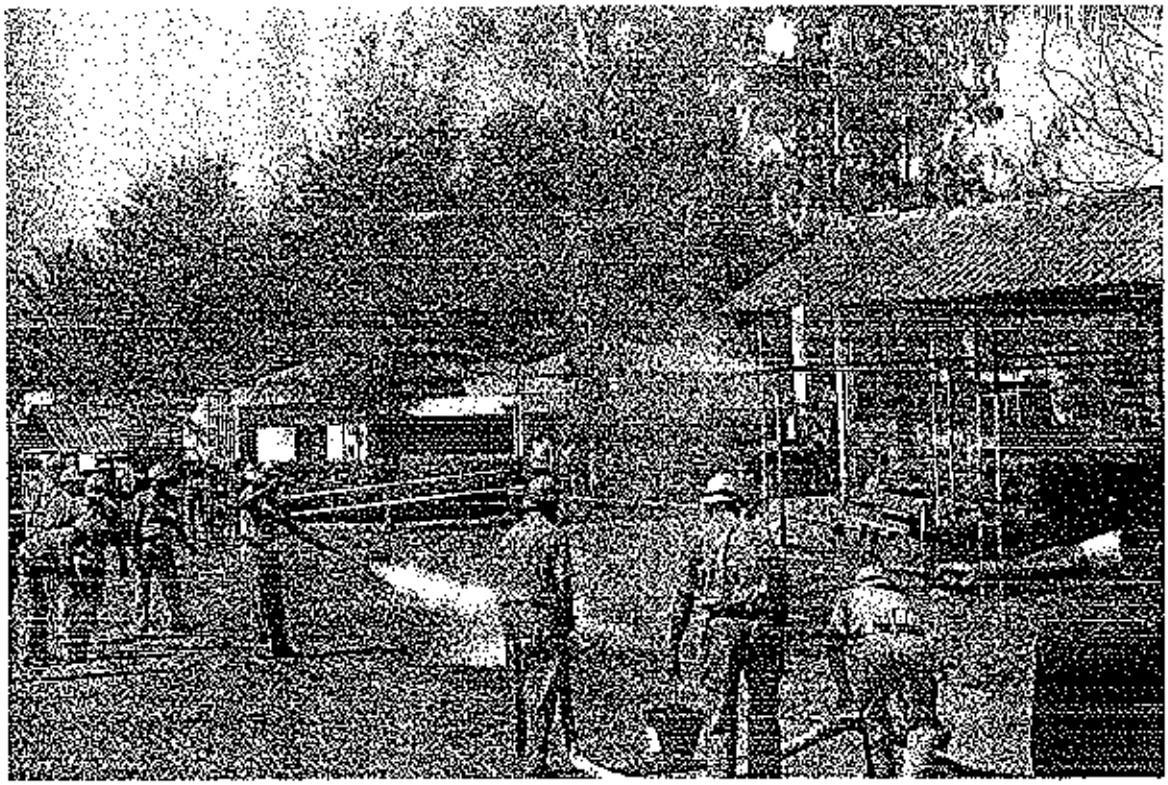
[illegible] अधिकारी

[illegible]

तालुका कृषि अधिकारी
अहेरगाव (घोडेवाडा) जि.धुळे

Annex





Annx XI 13

पुढारी दि. १४ जुलै २०१२

PUBLIC NOTICE

This is to inform the concerned people that the State Environment Impact Assessment Authority, Government of Maharashtra, Mumbai has accorded Environmental Clearance to M/s. Bhimashankar Sahakari Sakhar Karkhana Limited, at Dattatrayanagar, pargaon Vle Awasari Bk., Taluka- Ambegaon, District- Pune, for its bagasse based 19 MW cogeneration project. The Environmental Clearance is granted under the provision of EIA notification dated 14th September 2006. The copy of the environmental clearance is available on the website http://secmahaenvironment.gov.in/. This advertisement is published in the public interest, according to the general conditions specified in the Environmental Clearance.

For Bhimashankar Sahakari Sakhar Karkhana Limited
Managing Director

सकाळ दि. १४ जुलै २०१२

जाहीर सूचना

या जाहीर सूचनेद्वारे कळविण्यात येते की, मा. राज्य ईआयए प्राधिकरण, महाराष्ट्र शासन, मुंबई यांच्याकडून मे. भीमाशंकर सहकारी साखर कारखाना लिमिटेड, दत्तात्रयनगर, पारगाव तर्फे अवसरी बु.॥, तालुका- आंबेगाव, जिल्हा- पुणे यांना नियोजित १९ मे.वॅ. क्षमतेच्या बगॅसवर आधारित सहवीजनिर्मिती प्रकल्प उभारण्यास पर्यावरणीय संमती मिळाली आहे. सदर मंजुरीचे पत्र हे पर्यावरण विभाग, महाराष्ट्र शासनाच्या http://ec.maharashtra.gov.in/ या संकेतस्थळी उपलब्ध आहे.

सदर जाहीर सूचना ही पर्यावरणीय मंजुरीतील सामान्य अटींची पूर्तता करण्यासाठी देण्यात येत आहे.

मे. भीमाशंकर सहकारी साखर कारखाना लिमिटेड
कार्यकारी संचालक

≡ MENU

English
Marathi

आगच्या विषयी
विभाग
यश
उत्पादने
सामाजिक बांधिलकी
गॅलरी
निविदा
अहवाल
शेतकरी पोर्टल
शैक्षणिक पोर्टल
करीयर

Awards

- ९४% वी कॉर्पोरेटची वार्षिक सर्वसाधारण सभा सन २०१९-२०२०
- Over All Best Sugar factory In All India

MENU

पर्यावरण विभाग

English
Marathi

आमच्या विषयी

विभाग

एक

उत्पादने

सामाजिक उपक्रम

गॅलरी

करीयर

अहवाल

निविदा

शेतकरी पोर्टल

स्वतंत्र ऊस विकास विंग

VSI आणि CSRC Padegaon यांच्या सुयोजित ऊस बियाणे नाण सुरवठा देखील शेतकऱ्यांना वाजवी दर शेतीसाठी लागणारे साहित्य म्हणजे रासायनिक खते, कीटकनाशके कीटकनाशक पुरवठा.

तसेच माती आणि पाणी परीक्षण प्रयोगशाळा सुसज्ज.

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

On Line Monitoring report 2019-20

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

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

Part A (19 Mw EC complaince 01 July 2019 to 31st Dec 2019)

6000 M.T. E.C. Compliance (1st July to 31st 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 (Akanksha Lab) Analysis Report Season 2018-19

6000 M.T.Enviornmental Clearance

On -Line monitoring Report Season 2018-19

6000 MT EC Complinace Jan.to Jun.2019

15 MW Co-gen. EC Compliance Jan. to July 2019

19 MW Co-generation Environment Clearance

19 MW Co-generation Non complaince Report 2018-19

Environmental Statement (Form-V) 2018-19

[illegible]

[illegible]

Bhimashankar Sahakari Sakhar Karkhana

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: Dattatreyanagar,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: bsskltd@gmail.com
* Region: SRO - Pune II	* Industry Category: Red	* Industry Type: R12 Sugar (excluding Khandsari)
* Last Environmental statement submitted online: No Yes	* Consent Number: Format 1.0/BO/CAC-CELL/UAN No.0000064013/C	* Consent Issue Date: 23/07/2019
Consent Valid Upto: 31/07/2020		

Save

Product Information

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

Add More

By-product Information

* By Product Name	* Consent Quantity	* Actual Quantity	* UOM
Bagasse	280800	178746.310	MT/A
Pressmud	43200	27242.930	MT/A
Molasses	43200	28010.400	MT/A
Co-Generation	19 MW	60103.000	MWh

Add More

Part B

1) Water Consumption in m3/day

Sr. no	Water Consumption for	Consent Quantity in m3/day	Actual Quantity in m3/day
1	Process	1000	750
2	Cooling	200	175
3	Domestic	96	55
4	All others	-	-
	Total	1296	980

1) Effluent Generation in CMD / MLD

* Particulars	* Consent Quantity	* Actual Quantity	* UOM
Trade Effluent	650	450	CMD
Domestic Effluent	55	45	CMD

Add More

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

* Name of Products (Production)	* During the Previous financial Year	* During the current financial year	* UOM
Sugar	-	0.07	CMD
Bagasse	00	00	CMD
Molasses	00	00	CMD
Pressmud	00	00	CMD

Add More

3) Raw Material Consumption (Consumption of raw material per unit of product)

* Name of Raw Materials	* During the Previous financial Year	* During the current Financial year	* UOM
Sugarcane	-	692192.310	MT/A

Add More

4) Fuel Consumption

* Fuel Name	* Consent quantity	* Actual Quantity	* UOM
Bagasse	280800	178746.310	MT/A

Add More

Part C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

(A) Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day or Kg/day)	Concentration of Pollutants discharged(Mg/Lit Except	Percentage of variation from prescribed standards with reasons

160

PH,Temp,Colour

	Quantity	Concentration	% variation	Standard	Reason
pH	7.5	7.0	00	5.5-9.0	-
Oil & Grease	0.06	0.05	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	180	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	SPM -

Add More

Part D

HAZARDOUS WASTES

(As specified under Hazardous Waste (Management Handling & Transboundry 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	MT/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	MT/A

Add More

Part E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Fly/Boiler Ash	-	3750	MT/A
ETP Sludge	-	10	MT/A

Add More

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	-	-	MT/A

Add More

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	-	-	MT/A

Add More

Part F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	0.250	MT/A	-

Add More

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Fly /Boiler Ash	3750	MT/A	-
ETP Sludge	10	MT/A	-

Add More

Part G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Treated Effluent	6.50	510.00	15.00	1500	2.50	0.40

Add More

Part H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution

[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 (K	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

Juine & Designation

Mr. Chandrakant G. Dhage

NOTE: Attached file must be in pdf format and size should be upto 2MB.
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...018-20).pdf

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