

MASHANKAR

SAHAKARI SAKHAR KARKHANA LTD.



भीमाशंकर

सहकारी साखर कारखाना लि.

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

Dattatrayanagar, At.Post - Pargaon, Via Awasari (BK), Tal. Ambegaon, Dist.Pune. 412 406
Tel.Fax:(02133)284241, 284270, 9975568130 E-mail: bsskltd@gmail.com web site: www.bhimashankarssk.com, www.bsskl.sets.co.in

GSTIN : 27AAAABO949G1ZZ

BSSK/Mfg/ 1475 /2022-23

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.

Date:- 9 /07/2022

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.2022 to 30 June 2022) for your record reference.

Thanking you.

Yours Faithfully,

(C.G. Dhage)
Managing Director.

Encl- 1) Environment Clearance Copy. 2) Part- A – Data Sheet.
3) Six Monthly EC Compliance report

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

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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 TPN	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 M3/day (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, H/P 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		

R. S. S. S.

Green Belt Development	:	Green belt 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 achieved.
- (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 shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
- (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, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- (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.



3. 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, P.K. Puram, New Delhi - 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 Kerala.
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-1, Environment department.
9. Select file (TC-3).

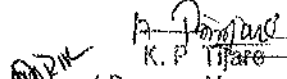
SIX MONTHLY COMPLIANCE REPORT

Part-I

DATA SHEET

No.		Industry
1	Project Type: River Valley/Mining/Industry/Thermal/Nuclear/Others (Specify)	
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 ⁰ 58' 30.57"N and Longitude 74 ⁰ 5'31.68"E
5	Address For Correspondance a) Address of the Managing Director(with Pin code/Telephone/Telex/Fax/Numbers) b)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 Phone No.(02133)284241/284341 Fax-(02133)284270
6	Salient Features a) of the Project b) of the Environmental Management Plans	This Sugar unit situated at Dattatrayanagar. 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 b) Others	N.A. 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: a) SC,ST / Adivasi b) Others (Please indicate whether these figures are based on any scientific and systematic survey carried	Project land is owned by project proponent. Population is not affected. N.A.

	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-Rs. 4446.250 Lakhs.
(b)	Allocation made for environmental management plans with item wise and year wise breakup	Year wise Break up- 2019-20 =Rs.14,00,000/- 2020-21=Rs.16,00,000/- 2021-22=Rs.18,00,000/-
c)	Benefit cost ratio / Internal rate of Return and the year of assessment	-
d)	Whether (c) includes the cost of environmental management as shown in the above	Yes
e)	Actual expenditure incurred on the project so far	Rs. 62-91.27 Lakhs
f)	Actual expenditure incurred on the environmental management plans so far	E.T.P.O&M, OCMS- AMC ,OCMS Spare, ESP maintenance expenditure- Year Wise Expenditure 2019-20 =Rs.21,36,500/- 2020-21=Rs.31,02,090/- 2021-22=Rs.27,55,548/-
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 Regional Office on previous occasions,if any	
b)	Date of site visit for this monitoring report	Nil
15	Details of correspondance with project authorities for obatinng action plan/information on status of complaince 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 notices of pollution department.We are regularly monitoring both air & water data as per CPCB guidelines & parameters are within limit.


 K. P. Titare
 (Process Manager)
 Shri. Shankar Sahakari Sakhar Karkhana Ltd
 Datta Ganaganagar, Fargaon Via - Awasari Bk
 Tal. Ambegaon, Dist. Pune-412 406



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 Reports Attached) OCMS reports are Aattached - Page No.17 to 26 MoEF Approved- Akanksha Lab-Pune monitoring reports Attached.- Page No.27 to 46 .
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 scrubber,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.(Photographs & Reoprts attached. Ann II.) Photographs Attached -Page No.47 to 49 MoEF Approved- Akanksha Lab-Pune monitoring reports Attached.- Page No.50 to 53 .
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 submitting to CPCB & MPCB server. Further we are analysing SPM & SO2 level in every month from MoEF approved lab. (Reports are enclosed-Ann.I & III) MoEF Approved- Akanksha Lab-Pune monitoring reports Attached.- Page No.54 to 57 OCMS reports are Aattached - Page No.58 to 62.
vi	Necessary arrangement shall be made adequate safety and ventilation arrangement in furnace area.	We have made provision for proper ventilation in the process area.(Photographs is enclosed Ann.IV) Page No.63
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 achieved.	After failure of pollution control device, We immediately stop the Boiler operation & restart after activation of pollution 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) Page No.64 to 78
xi	Arrangement shall be made that effluent and storm water does not get mixed.	We have proper drainage 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 samples within 5 Km radius of karkhana are checked in every month from MoEF approved lab. (Ann.VI) MoEF Approved- Akanksha Lab-Pune monitoring reports Attached.- Page No.79 to 98.
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 cabins are provided to operators wherever is possible *The air compressor, process air blower, pneumatic valves are kept in the closed cabins. * Noise level -- within limit. (Report Attached- VII) MoEF Approved- Akanksha Lab-Pune monitoring reports Attached.- Page No.99 to 102.
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 conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.	* Noise controlling measures are as per EMP. * Noise level is within standard limits & we will maintain the same in 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. (List enclosed.AnnVIII) Page no.103 to106
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 taken
xvii	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.	*We are doing health checkup of all the employees once in every year and records is maintained as per Factory Act. * We are organising pre & post medical check-ups for all employees. Employees are regularly examined and the medical records is maintained of 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)Page No.107
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 extinguishbrs etc. are different types of fire protection /dection sysetm 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 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 rept 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) Page No.108 to 109
xxii	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	<p>*Environment Management cell is established.</p> <p>*It is headed by a qualified and experienced environmental officer having experiance more than 10 years.</p> <p>*Environment Management cell - Environment Officer-(M.Sc.(Env.Sci.))-1 No. ETP Chemist(M.Sc.)(Env.Sci.)-1 No. ETP operators (10th or12 th) - 7 Nos.</p> <p>*For additional work he has an approach to MoEF approved laboratory and NABET approved FAE. for quidance & trainings.</p>
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.	<p>Provided separate silos & ash collection sand filters for the collection & storage of bottom ash & fly ash.</p> <p>*Ash generated from the co-gen plant is used for compost.</p>
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 expenditure should reported to the MPCB & this department.	<p>*We have received the EC in 2012 and all required basic works are completed.</p> <p>* We utilized Rs.300.00Lakhs for capital investment for environment protection EMP.</p> <p>* Management is very committed for the same. *</p> <p>The funds earmarked for Environment are not diverting to any other acoount head.</p> <p>* We have made 16 lakhs provision for the operational expenditure of EMP for the current year.</p>

xxvi	<p>The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at</p>	<p>Karkhana were published advertise in local newspapers - 1) Pudhari(English)-13 July 2012 2) Sakal (Marathi) - 14 July 2012 (Ann.XI) Page No. 110</p>
xxvii	<p>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.</p>	<p>Regularly Submitted.(Website Screenshot Attached Ann.XII).Page No.111 to112</p>
xxviii	<p>A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom 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.</p>	<p>*Compliance of EC granted by MoEF is conveyed to local authority, MPCB, villagers, NGO and already displayed on Karkhana website .</p>
xxix	<p>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</p>	<p>Regularly Submitted.</p>
xxx	<p>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.</p>	<p>*We have uploaded latest compliance report of conditions stipulated in the Environmental clearance along with analytical reports.</p>

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.

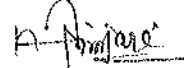
*We are already submitting every year the annual,statutory Environmental statement in Form V to MPCB.

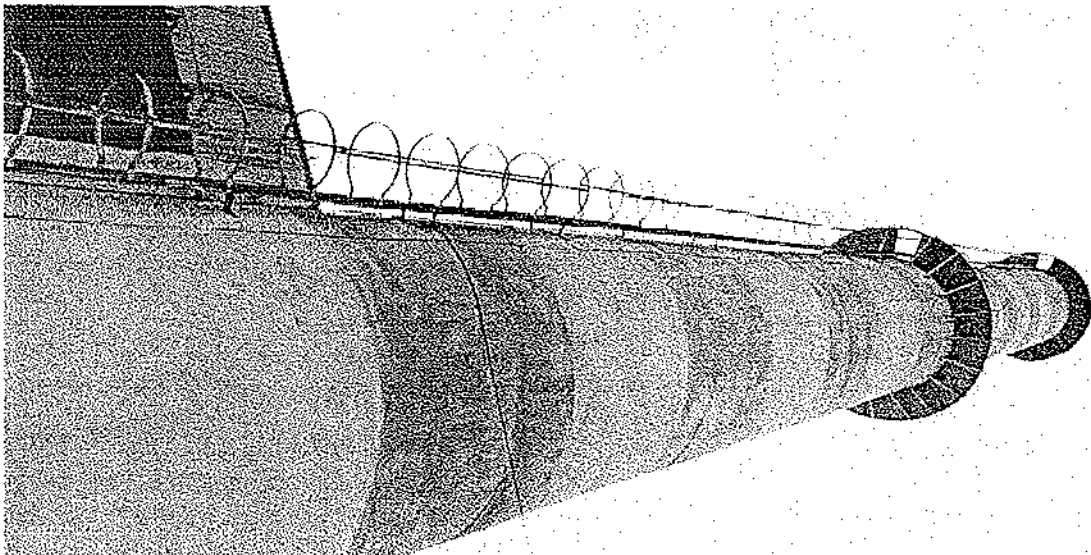
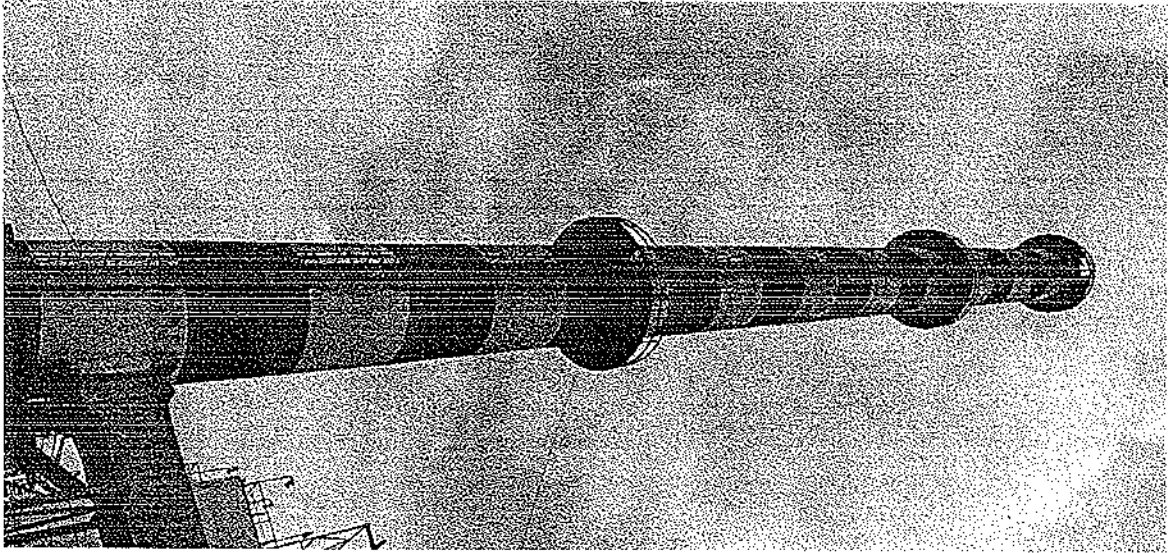
*The recent annual,statutory Environmetal statement on Form V is enclosed herewith. (Ann. XIII)Page No.113 to 116.

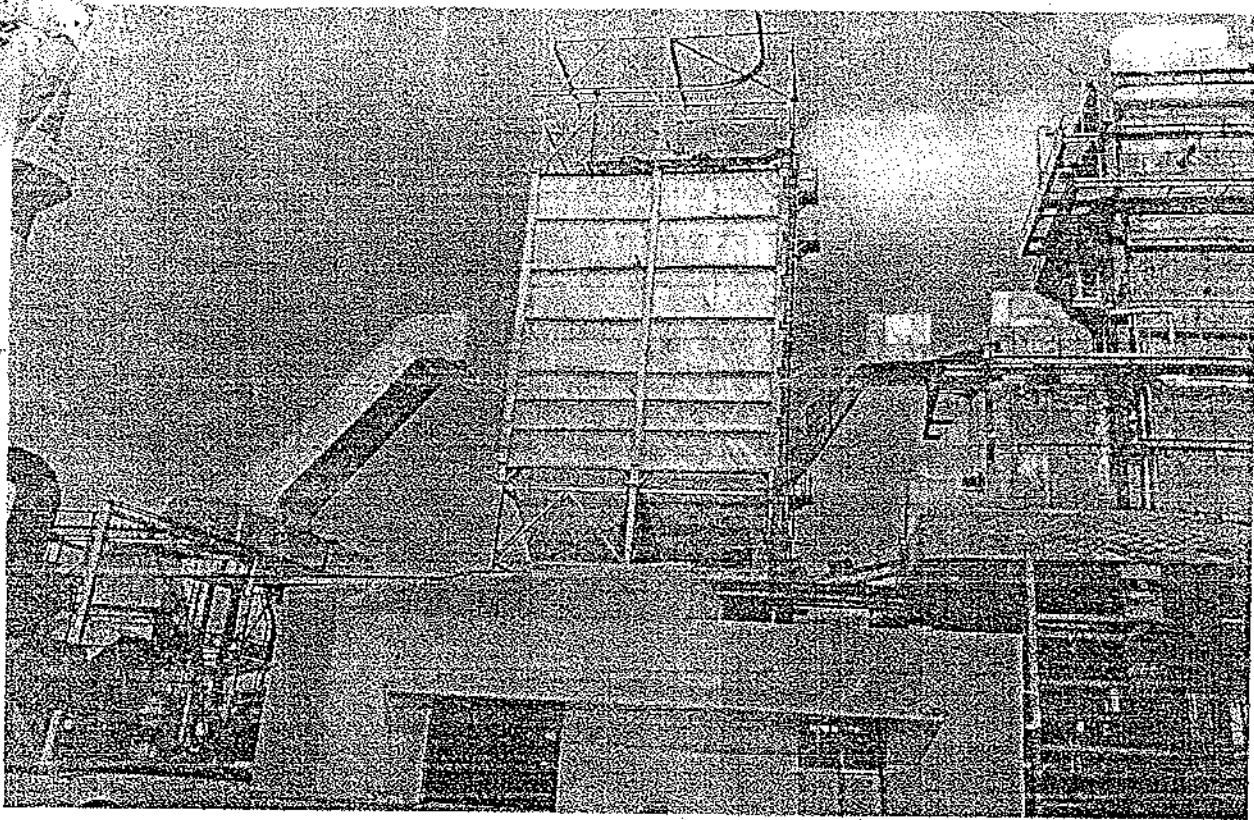
xxxii

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

There is no any environmental issues & cases regarding pollution.


K. P. Tijare
(Process Manager)
Bhimashankar Sahakar - Sekhar Karkhana Ltd
Dattatrayanagar, Paigoon Via - Awasari Bk
Tal.Ambegaon, Dist.Pune - 412 406





EnviroConnect Forbes Marshall Multi Station Report

From Date 01/01/2022 00:00
 To Date 31/01/2022 23:59
 Interval Daily
 Function Average

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

01/01/2022 00:00	60
02/01/2022 00:00	60
03/01/2022 00:00	60 D
04/01/2022 00:00	60 < D
05/01/2022 00:00	60
06/01/2022 00:00	60
07/01/2022 00:00	60
08/01/2022 00:00	60
09/01/2022 00:00	60
10/01/2022 00:00	60
11/01/2022 00:00	60 <
12/01/2022 00:00	60
13/01/2022 00:00	60 <
14/01/2022 00:00	60 <
15/01/2022 00:00	60
16/01/2022 00:00	60
17/01/2022 00:00	60
18/01/2022 00:00	60
19/01/2022 00:00	60
20/01/2022 00:00	60
21/01/2022 00:00	60
22/01/2022 00:00	60
23/01/2022 00:00	60 <
24/01/2022 00:00	60
25/01/2022 00:00	60
26/01/2022 00:00	60
27/01/2022 00:00	60
28/01/2022 00:00	60 <
29/01/2022 00:00	60 <
30/01/2022 00:00	60
31/01/2022 00:00	60 <
Average	60
Geom.Mean	60
Maximum	60
Median	60
Minimum	60
Mode	60
Std.Deviation	0

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/02/2022 00:00
 To Date 28/02/2022 23:59
 Interval Daily
 Function Average

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

01/02/2022 00:00	60
02/02/2022 00:00	60 <
03/02/2022 00:00	60 <
04/02/2022 00:00	42.64 <
05/02/2022 00:00	57.65
06/02/2022 00:00	60
07/02/2022 00:00	60 <
08/02/2022 00:00	60 <
09/02/2022 00:00	60
10/02/2022 00:00	60 <
11/02/2022 00:00	60 <
12/02/2022 00:00	60 <
13/02/2022 00:00	60 <
14/02/2022 00:00	60
15/02/2022 00:00	60
16/02/2022 00:00	60
17/02/2022 00:00	60
18/02/2022 00:00	60
19/02/2022 00:00	60
20/02/2022 00:00	60
21/02/2022 00:00	60
22/02/2022 00:00	60
23/02/2022 00:00	60
24/02/2022 00:00	60
25/02/2022 00:00	60
28/02/2022 00:00	60 <
Average	59.2
Geom.Mean	59.1
Maximum	60
Median	60
Minimum	42.6
Mode	60
Std.Deviation	3.4
Total Active Duration	

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/03/2022 00:00
 To Date 31/03/2022 23:59
 Interval Daily
 Function Average

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

01/03/2022 00:00	60
02/03/2022 00:00	60
03/03/2022 00:00	60
04/03/2022 00:00	60
05/03/2022 00:00	60 <
06/03/2022 00:00	60 <
07/03/2022 00:00	52.5 <
08/03/2022 00:00	51.5 <
09/03/2022 00:00	60 <
10/03/2022 00:00	60 <
11/03/2022 00:00	60 <
12/03/2022 00:00	60 <
13/03/2022 00:00	60 <
14/03/2022 00:00	60
15/03/2022 00:00	60
16/03/2022 00:00	60
17/03/2022 00:00	60
18/03/2022 00:00	60
19/03/2022 00:00	59.98
20/03/2022 00:00	60
21/03/2022 00:00	60
22/03/2022 00:00	60
23/03/2022 00:00	60
24/03/2022 00:00	60
25/03/2022 00:00	60
26/03/2022 00:00	60
27/03/2022 00:00	60
28/03/2022 00:00	60
29/03/2022 00:00	60
30/03/2022 00:00	60
31/03/2022 00:00	60
Average	59.5
Geom. Mean	59.4
Maximum	60
Median	60
Minimum	51.5
Mode	60
Std. Deviation	2

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/04/2022 00:00
 To Date 30/04/2022 23:59
 Interval Daily
 Function Average

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

01/04/2022 00:00	60
02/04/2022 00:00	60
03/04/2022 00:00	60
04/04/2022 00:00	49.46
05/04/2022 00:00	48.44
06/04/2022 00:00	60
07/04/2022 00:00	60
08/04/2022 00:00	60
09/04/2022 00:00	60
10/04/2022 00:00	60
11/04/2022 00:00	60
12/04/2022 00:00	60
13/04/2022 00:00	60
14/04/2022 00:00	60
15/04/2022 00:00	60
16/04/2022 00:00	60
17/04/2022 00:00	60
18/04/2022 00:00	60
19/04/2022 00:00	60
20/04/2022 00:00	60
21/04/2022 00:00	60
22/04/2022 00:00	60
23/04/2022 00:00	60
24/04/2022 00:00	60 <
25/04/2022 00:00	60 <
26/04/2022 00:00	60 <
27/04/2022 00:00	60
28/04/2022 00:00	60
29/04/2022 00:00	60
30/04/2022 00:00	60
Average	59.3
Geom.Mean	59.2
Maximum	60
Median	60
Minimum	48.4
Mode	60
Std.Deviation	2.8
Total Active Duration	

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/05/2022 00:00
To Date 31/05/2022 23:59
Interval Daily
Function Average

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

01/05/2022 00:00	60
02/05/2022 00:00	60
03/05/2022 00:00	60
04/05/2022 00:00	60
05/05/2022 00:00	60
06/05/2022 00:00	60
07/05/2022 00:00	60
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 01/01/2022 00:00
 To Date 31/01/2022 23:59
 Interval Daily
 Function Average

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

02/01/2022 00:00	72 <
03/01/2022 00:00	72 <
04/01/2022 00:00	72
05/01/2022 00:00	72 <
06/01/2022 00:00	72 <
07/01/2022 00:00	72 <
08/01/2022 00:00	72
09/01/2022 00:00	72 <
10/01/2022 00:00	72 <
11/01/2022 00:00	72 < D
12/01/2022 00:00	72 <
13/01/2022 00:00	72 <
14/01/2022 00:00	72
15/01/2022 00:00	72 <
16/01/2022 00:00	72 <
17/01/2022 00:00	72 <
18/01/2022 00:00	72 <
19/01/2022 00:00	72
20/01/2022 00:00	72
21/01/2022 00:00	72
22/01/2022 00:00	72 <
23/01/2022 00:00	72 <
24/01/2022 00:00	72 <
25/01/2022 00:00	72 <
26/01/2022 00:00	72
27/01/2022 00:00	72 <
28/01/2022 00:00	72
29/01/2022 00:00	72
30/01/2022 00:00	72 <
31/01/2022 00:00	72 <
Average	72
Geom.Mean	72
Maximum	72
Median	72
Minimum	72
Mode	72
Std.Deviation	0
Total Active Duration	

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/02/2022 00:00
 To Date 28/02/2022 23:59
 Interval Daily
 Function Average

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

01/02/2022 00:00	72 <
02/02/2022 00:00	72 <
03/02/2022 00:00	72 <
04/02/2022 00:00	62.57 <
05/02/2022 00:00	72 <
06/02/2022 00:00	72 <
07/02/2022 00:00	72
08/02/2022 00:00	72
09/02/2022 00:00	72 <
10/02/2022 00:00	72 <
11/02/2022 00:00	72
12/02/2022 00:00	72
13/02/2022 00:00	72
14/02/2022 00:00	72
15/02/2022 00:00	72
16/02/2022 00:00	72
17/02/2022 00:00	72
18/02/2022 00:00	72
19/02/2022 00:00	72
20/02/2022 00:00	72 <
21/02/2022 00:00	72 <
22/02/2022 00:00	72 <
23/02/2022 00:00	72 <
24/02/2022 00:00	72 <
25/02/2022 00:00	72 <
26/02/2022 00:00	72
27/02/2022 00:00	72
28/02/2022 00:00	72
Average	71.7
Geom.Mean	71.6
Maximum	72
Median	72
Minimum	62.6
Mode	72
Std.Deviation	1.8
Total Active Duration	

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/03/2022 00:00
 To Date 31/03/2022 23:59
 Interval Daily
 Function Average

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

03/03/2022 00:00	72 <
04/03/2022 00:00	72 <
05/03/2022 00:00	72 <
06/03/2022 00:00	72 <
07/03/2022 00:00	52.27 <
08/03/2022 00:00	72 <
09/03/2022 00:00	72
10/03/2022 00:00	72
11/03/2022 00:00	72
12/03/2022 00:00	72
13/03/2022 00:00	72
14/03/2022 00:00	72
15/03/2022 00:00	72
16/03/2022 00:00	72 <
17/03/2022 00:00	72 <
18/03/2022 00:00	72 <
19/03/2022 00:00	72 <
20/03/2022 00:00	72
21/03/2022 00:00	72
22/03/2022 00:00	72
23/03/2022 00:00	72
24/03/2022 00:00	72
25/03/2022 00:00	72
26/03/2022 00:00	72
27/03/2022 00:00	72
28/03/2022 00:00	72
29/03/2022 00:00	72
30/03/2022 00:00	72
31/03/2022 00:00	72
Average	71.3
Geom.Mean	71.2
Maximum	72
Median	72
Minimum	52.3
Mode	72
Std.Deviation	3.7
Total Active Duration	

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/04/2022 00:00
 To Date 30/04/2022 23:59
 Interval Daily
 Function Average

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

01/04/2022 00:00	72 <
02/04/2022 00:00	72
03/04/2022 00:00	71.97
04/04/2022 00:00	68.12 <
05/04/2022 00:00	71.96 <
06/04/2022 00:00	72
07/04/2022 00:00	72 <
08/04/2022 00:00	72
09/04/2022 00:00	72
10/04/2022 00:00	72
11/04/2022 00:00	72
12/04/2022 00:00	72
13/04/2022 00:00	72 <
14/04/2022 00:00	72
15/04/2022 00:00	72
16/04/2022 00:00	72
17/04/2022 00:00	72
18/04/2022 00:00	72
19/04/2022 00:00	72
20/04/2022 00:00	72
21/04/2022 00:00	72
22/04/2022 00:00	72
23/04/2022 00:00	72
24/04/2022 00:00	72
25/04/2022 00:00	72
26/04/2022 00:00	72 <
27/04/2022 00:00	72 <
28/04/2022 00:00	72 <
29/04/2022 00:00	72 <
30/04/2022 00:00	72 <
Average	71.9
Geom.Mean	71.9
Maximum	72
Median	72
Minimum	68.1
Mode	72
Std.Deviation	0.7
Total Active Duration	

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/05/2022 00:00
To Date 31/05/2022 23:59
Interval Daily
Function Average

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

01/05/2022 00:00	72 <
02/05/2022 00:00	72
03/05/2022 00:00	72
04/05/2022 00:00	71.92
05/05/2022 00:00	71.96 <
06/05/2022 00:00	72
07/05/2022 00:00	72 <
Average	72
Geom.Mean	72
Maximum	72
Median	72
Minimum	71.9
Mode	72
Std.Deviation	0
Total Active Duration	



AKANKSHA ANALYTICAL & RESEARCH LAB

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- ISO 9001 : 2015 Certified Organization
- 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/63-618/21-22
		Report Date	01/02/2022
		Inward No	AL/7-378/02/21-22
Sample Location	East Side -Near Amantran hotel	Inward Date	23/01/2022
Sample Collected By	AARI.	Sampling Time	10:48 AM
		Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.8	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/m ³	16.48	< 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	19.54	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	60.12	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	19.59	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.47	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.36	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	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

Ashy
Verified by
(Analyst)

Cipul
Authorized Signatory

...End of test report...



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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. Bhimia Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/63-620/21-22
		Report Date	01/02/2022
		Inward No	AL/7-378/04/21-22
		Inward Date	23/01/2022
Sample Location	West Side- Pandurang Dhobale	Sampling Time	11:30 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	48	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	12.49	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	10.23	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	58.14	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5micron)	µg/m ³	20.32	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	18.12	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.09	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401, (Indophenols method) Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	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

Aakash
Verified by
(Analyst)

Carpu
Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

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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/63-619/21-22
		Report Date	01/02/2022
		Inward No	AL/7-378/03/21-22
		Inward Date	23/01/2022
Sample Location	North Side- Sachin Dhobale	Sampling Time	11:50 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	48	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	12.45	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	09.81	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	57.96	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	18.78	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	18.41	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	00.98	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	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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...End of test report.



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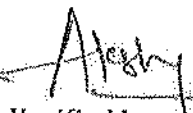
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		Report No	AL/TR/63-617/21-22
		Report Date	01/02/2022
		Inward No	AL/7-378/01/21-22
		Inward Date	23/01/2022
Sample Location	South Side-Yogesh Pingale	Sampling Time	11:05 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	49	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	10.22	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	11.23	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	56.89	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	18.14	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.41	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	00.96	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION:

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


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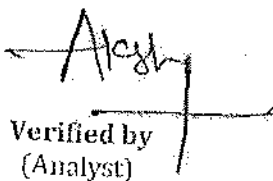
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karichana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No AL/TR/63-621/21-22
		Report Date 01/02/2022
		Inward No AL/7-378/05/21-22
		Inward Date 23/01/2022
Sample Location Main Gate (Company Premises)	Sample Collected By AARL	Sampling Time 12:00 PM
		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	47	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	18.91	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	16.23	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	65.46	< 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	23.25	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	18.39	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.53	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	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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भीमाशंकर सहकारी साखर कारखाना लि.
पत्र आंक सं. ३४६५
दिनांक - १२/३/२०२२

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/64-088/21-22
		Report Date	04/03/2022
		Inward No	AL/7-413/01/21-22
		Inward Date	24/02/2022
Sample Location	East side-Shri. shankar Shinde House	Sampling Time	11:50 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	31.5	N.S.	EPA -454/R-99-005
2.	Relative Humidity	%rh	38	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	12.37	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	14.82	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	48.23	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	17.01	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.92	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.21	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2006

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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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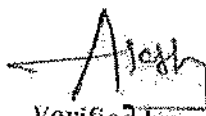
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/64-089/21-22
Sample Location		Report Date	04/03/2022
Sample Collected By		Inward No	AL/7-413/02/21-22
West side- Shri. Dhondiram Pingale House		Inward Date	24/02/2022
AARL		Sampling Time	12:15 PM
		Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	31.5	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	35	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	12.29	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	09.72	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	51.23	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	17.46	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	07.96	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	00.95	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	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/64-090/21-22
		Report Date	04/03/2022
		Inward No	AL/7-413/03/21-22
		Inward Date	24/02/2022
Sample Location	North Side- Shri Balasaheb Dhobale House	Sampling Time	12:28 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	31.7	N.S.	EPA -454/R-99-005
2.	Relative Humidity	%rh	33	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	10.12	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	10.41	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	53.26	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	17.45	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.44	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	00.91	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

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

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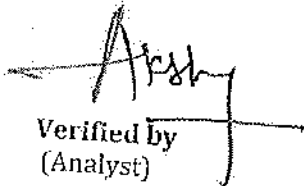
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk, Tal. - Ambegaon, Dist. - Pune-412 406		Report No AL/TR/64-091/21-2
Sample Location South side - Shri Pandurang Walase House		Report Date 04/03/2022
Sample Collected By AARL	Inward No AL/7-413/04/21-22	Inward Date 24/02/2022
	Sampling Time 01:15 PM	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	30	N.S.	EPA 454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	12.14	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	09.92	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	54.14	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	18.87	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	18.10	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.02	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401, (Indophenols method) Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	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/64-092/21-22
		Report Date	04/03/2022
		Inward No	AL/7-413/05/21-22
		Inward Date	24/02/2022
Sample Location	Kata Gate (Company Premises)	Sampling Time	02:05 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/m ³	19.36	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	15.78	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	75.23	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	24.98	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	18.21	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.62	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	ng/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	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/64-605/22-23
		Report Date	04/04/2022
		Inward No	AL/7-453/01/22-23
		Inward Date	27/03/2022
Sample Location	East side-Shri. Pavan Walase House.	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	34	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	12.21	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	14.75	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	46.32	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	16.39	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.86	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.19	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

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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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 (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/64-606/22-23
		Report Date 04/04/2022
		Inward No AL/7-453/02/22-23
		Inward Date 27/03/2022
Sample Location	West side- Shri. Balasaheb Wavhare House	Sampling Time 10:00 AM
Sample Collected By	AARL	Time duration 08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.9	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	36	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	12.21	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	09.65	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	48.70	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	17.23	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.89	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.02	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	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/64-608/22-23
		Report Date 04/04/2022
		Inward No AL/7-453/04/22-23
		Inward Date 27/03/2022
Sample Location	South side - Shri Balasaheb kasabe House	Sampling Time 10:20 AM
Sample Collected By	AARL	Time duration 03 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.1	N.S.	EPA -454/R-99-005
2.	Relative Humidity	%rh	33	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	12.16	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	10.01	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	52.36	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	17.91	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.78	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.12	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401, (Indophenols method) Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

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- ❖ 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/64-607/22-23
		Report Date	04/04/2022
		Inward No	AL/7-453/03/22-23
		Inward Date	27/03/2022
Sample Location	North Side- Shri Sushant Sonavane House	Sampling Time	10:10 AM
Sample Collected By	AARI.	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/m ³	09.98	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	10.35	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	51.02	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	17.31	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.57	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	00.96	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

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- ❖ N.S. -Not Specified

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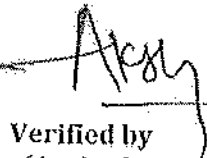
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/64-609/22-23
		Report Date	04/04/2022
		Inward No	AL/7-453/05/22-23
		Inward Date	27/03/2022
Sample Location	Main Gate (Company Premises)	Sampling Time	10:40 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.1	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	32	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	18.98	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	16.31	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	62.87	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	22.96	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	18.21	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.59	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	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/65-045/22-23
		Report Date	04/05/2022
		Inward No	AL/7-496/01/22-23
		Inward Date	26/04/2022
Sample Location	East side-Shri. Sopan Jadhav House	Sampling Time	12:18 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	26	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	15.20	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	16.18	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	48.96	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	18.96	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.91	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	02.05	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

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

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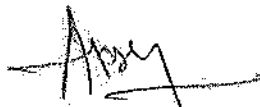
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/65-046/22-23
		Report Date	04/05/2022
		Inward No	AL/7-496/02/22-23
		Inward Date	26/04/2022
Sample Location	West side- Shri. Ganesh Borge House.	Sampling Time	12:41 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	24	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	18.96	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	12.47	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	44.02	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	18.30	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.22	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	02.41	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method) Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	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/65-047/22-23
Sample Location North Side- Shri Suresh Bohradhe House		Report Date 04/05/2022
Sample Collected By AARL		Inward No AL/7-496/03/22-23
		Inward Date 26/04/2022
		Sampling Time 02:20 PM
		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	26	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	14.99	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	11.52	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	46.13	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	19.88	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.07	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.57	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

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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/65-018/22-23
		Report Date 04/05/2022
		Inward No AL/7-496/04/22-23
		Inward Date 26/04/2022
Sample Location	South side - Shri Mahesh Shinde House	Sampling Time 03:27 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	24	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	16.85	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	11.57	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	43.76	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	18.10	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.41	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	02.01	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401, (Indophenols method) Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

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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/65-049/22-23
		Report Date 04/05/2022
		Inward No AL/7-496/05/22-23
		Inward Date 26/04/2022
Sample Location	Kata 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	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	26	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	22.59	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	24.63	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	68.77	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	25.60	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.00	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	02.87	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	ng/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

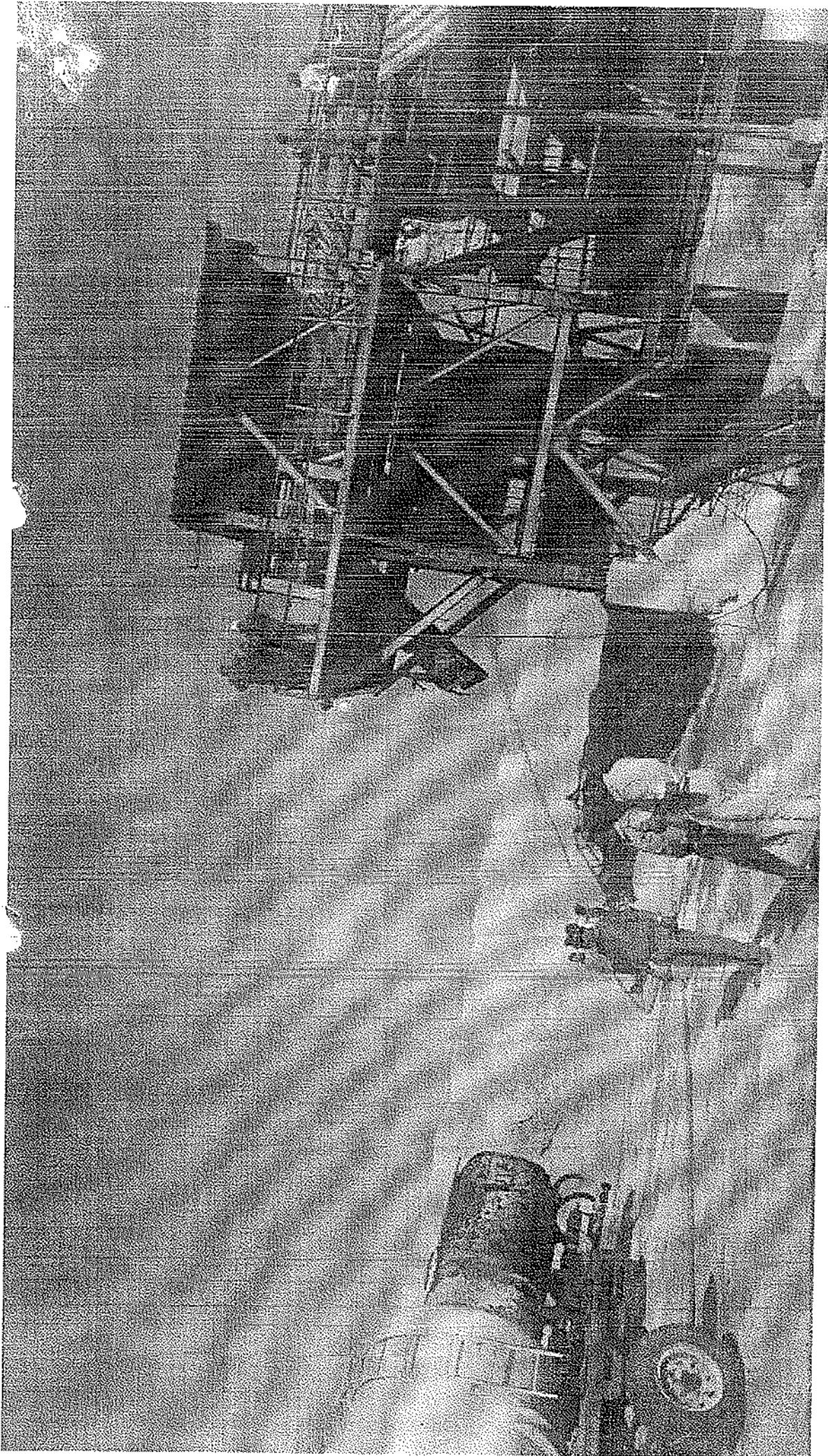
REMARK, OPINION & INTERPRITATION-

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

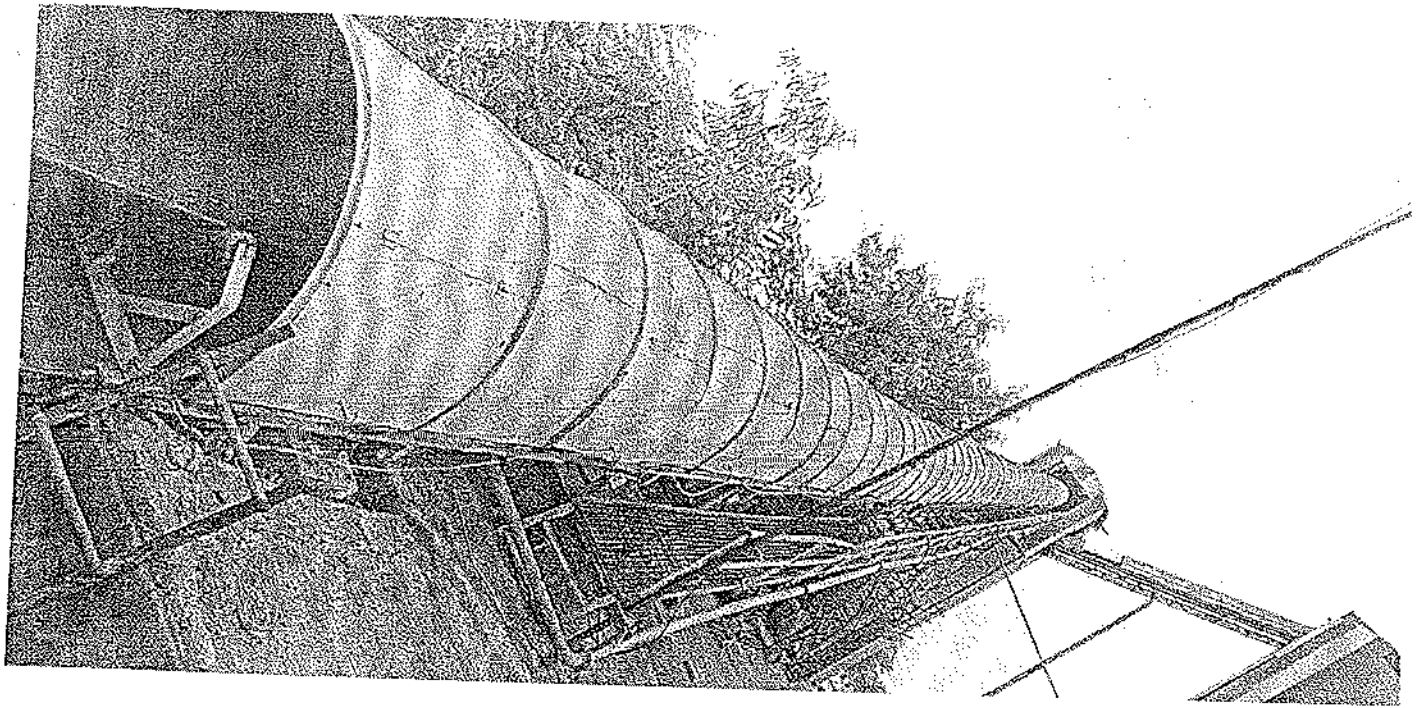
Verified by
(Analyst)

Authorized Signatory

...End of test report







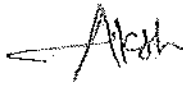


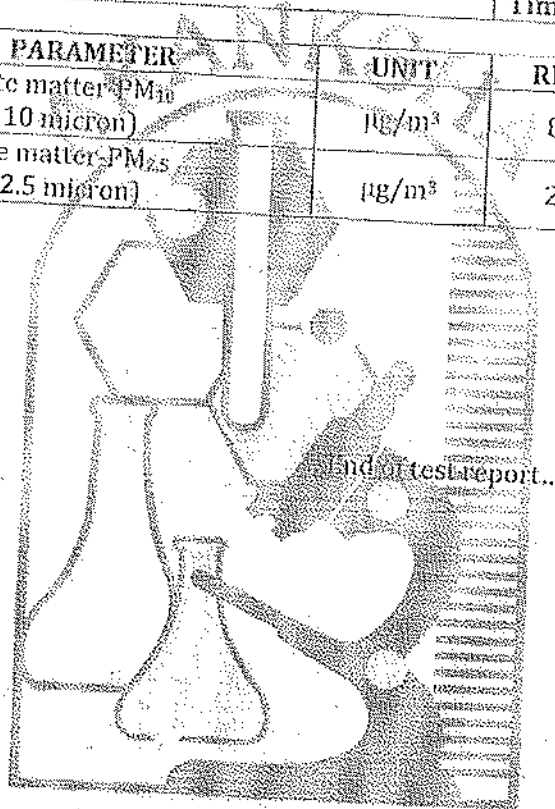
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING

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/63-622/21-22	Page 1 of 1	
Sample Location	Bagasse Yard (Fugitive Sample)	Report Date 01/02/2022	Inward No AL/7-378/06/21-22	
Sample Collected By	AARL	Inward Date 23/01/2022	Sampling Time 12:10 PM	
		Time duration 08 Hr		
SR.NO.	PARAMETER	UNIT	RESULT	METHOD
1.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	83.26	IS:5182(Part-23):2006
2.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	24.12	IS:5182(Part-23):2006


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/64-093/21-22
		Report Date 04/03/2022
		Inward No AL/7-413/06/21-22
		Inward Date 24/02/2022
Sample Location	Bagasse Yard {Fugitive Sample}	Sampling Time 02:10 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/m ³	83.69	IS:5182(Part-23):2006
2.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	25.21	IS:5182(Part-23):2006

Verified by
(Analyst)

Authorized Signatory



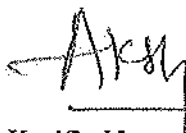
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING

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/64-610/22-23	Page 1 of 1
Sample Location Bagasse Yard {Fugitive Sample}		Report Date 04/04/2022	Inward No AL/7-453/06/22-23
Sample Collected By AARL		Inward Date 27/03/2022	Sampling Time 10:50 AM
		Time duration 08 Hr	

SR.NO.	PARAMETER	UNIT	RESULT	METHOD
1.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	81.96	IS:5182(Part-23):2006
2.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	24.78	IS:5182(Part-23):2006


Verified by
(Analyst)


Authorized Signatory

End of test report...

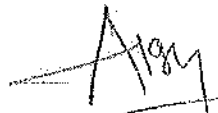


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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/65-050/22-23
		Report Date	04/05/2022
		Inward No	AL/7-496/06/22-23
		Inward Date	26/04/2022
Sample Location	Bagasse Yard {Eugitive Sample}	Sampling Time	02:49 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/m ³	91.24	IS:5182(Part-23):2006
2.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	32.41	IS:5182(Part-23):2006


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.		Report No AL/TR/44-920/2021-22	Page 1 of 1
Sample Testing Location	Laboratory	Report Date	01/02/2022
Sample Detail	ETP Outlet	Inward No	1-491
Sample Collected By	Party	Inward Date	25/01/2022
Sample Volume	3000 ml	Analysis Start date	27/01/2022
		Analysis End date	31/01/2022
		Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Limits as Per MPCB Consent	Method
1.	pH@25 ^o C		8.19	5.5-9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27 ^o C For 3 Days	mg/lit.	26.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit.	79.0	<250	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit.	5.00	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit.	BDL	≤10.0	APHA 23 rd Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit.	1294	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit.	90.0	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO ₄ ²⁻	mg/lit.	656	≤1000	APHA-23 rd 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 sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ 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
- ❖ Opinion and interpretation - Not applicable

Aishwarya

Prepared by
(Aishwarya Bobade)

Vipul

Reviewed by
(Vipul Waghmare)

Karuna

Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



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TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Dhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Rk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No AL/TR/45-479/2021-22
Sample Testing Location Laboratory		Report Date 04/03/2022
Sample Detail ETP Outlet		Inward No 2-454
Sample Collected By Party		Inward Date 25/02/2022
Sample Volume 3000 ml		Analysis Start date 26/02/2022
		Analysis End date 03/03/2022
		Sample Condition Fit For Analysis

Sr. No.	Parameter	Unit	Result	Limits as Per MPCB Consent	Method
1.	pH@25° C		7.85	5.5-9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27° C For 3 Days	mg/lit.	52.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit.	160	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit.	930	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit.	6.00	≤10.0	APHA 23rd Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit.	1597	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit.	25.0	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO ₄ ²⁻	mg/lit.	212	≤1000	APHA 23rd Edition 2017 4500 F-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 sample as tested.
- ❖ All the test conducted at permanent location not at out source.
- ❖ 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
- ❖ Opinion and interpretation - Not applicable

Aishwarya

Prepared by
(Aishwarya Bobade)

P.P.
Vipul
Reviewed by
(Vipul Waghmare)

Karuna
Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



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TEST REPORT		Report No	Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakar Sahakar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report Date	AI/TR/45-971/2022-23
Sample Testing Location	Laboratory	Inward No	3-456
Sample Detail	ETP Outlet	Inward Date	27/03/2022
Sample Collected By	Party	Analysis Start date	28/03/2022
Sample Volume	3000 ml	Analysis End date	31/03/2022
		Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Limits as Per MPCB Consent	Method
1.	pH@25° C		7.87	5.5-9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27° C For 3 Days	mg/lit	80.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit	224	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit	13.0	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit	6.00	≤10.0	APHA 23 rd Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit	1598	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	126	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO ₄ ²⁻	mg/lit	336	≤1000	APHA 23 rd 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 sample as tested.
- ❖ All the test conducted at permanent location not at our source
- ❖ 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
- ❖ Opinion and interpretation - Not applicable

Aishwarya
Prepared by
(Aishwarya Bobade)

P.P.
Arsh
Reviewed by
(Vipul Waghmare)

Karuna
Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



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TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karichana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No AL/TR/46-521/2022-23
Sample Testing Location	Laboratory	Report Date 06/05/2022
Sample Detail	ETP Outlet	Inward No 4-469
Sample Collected By	Party	Inward Date 26/04/2022
Sample Volume	3000 ml	Analysis Start date 28/04/2022
		Analysis End date 02/05/2022
		Sample Condition Fit For Analysis

Sr. No.	Parameter	Unit	Result	Limits as Per MPCB Consent	Method
1.	pH@25°C	-	8.06	5.5-9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27°C For 3 Days	mg/lit	30.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit	145	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit	35.0	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit	1.00	≤10.0	APHA 23 rd Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit	1295	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	883	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO ₄ ²⁻	mg/lit	135	≤1000	APHA 23 rd 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 sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ 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
- ❖ Opinion and Interpretation - Not applicable

Aishwarya

Prepared by
(Aishwarya Bobade)

Vipul

Reviewed by
(Vipul Wadhvani)

Karuna

Authorized Signatory
(Mrs. Karuna Kadam Dhadse)

...End of test report...

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/01/2022 00:00
 To Date 31/01/2022 23:59
 Interval Daily
 Function Average

Plant	BSSK	BSSK	BSSK	BSSK
Analyzer	ETP1	ETP1	ETP1	ETP1
Parameter	pH	COD	TSS	BOD
Unit	pH	mg/l	mg/l	mg/l
Limit	5.50 - 9.00	0.00 - 250.00	0.00 - 100.00	0.00 - 100.00
02/01/2022 00:00	6.33 <	60.59 <	80.05 <	32.41
03/01/2022 00:00	6.33	60.58	80.05	32.4
04/01/2022 00:00	6.33 D	60.57 D	80.05 D	32.4
05/01/2022 00:00	6.7 < D	66.15 < D	56.06 < D	35.11
06/01/2022 00:00	7.44 <	77.13 <	9.04 <	40.42
07/01/2022 00:00	7.44 <	77.11 <	9.05 <	40.42
08/01/2022 00:00	7.44 <	77.11 <	9.04 <	40.42
09/01/2022 00:00	7.44	77.11	9.03	40.41
10/01/2022 00:00	7.44	77.08	9.02	40.42
11/01/2022 00:00	7.44 D	77.1 D	9.03 D	40.42
12/01/2022 00:00	7.44 < D	77.11 < D	9.05 < D	40.43
13/01/2022 00:00	7.44 <	77.05 <	9.02 <	40.41
14/01/2022 00:00	7.44 <	77.11 <	9.06 <	40.43
15/01/2022 00:00	7.44 <	77.07 <	9.05 <	40.43
16/01/2022 00:00	7.45 <	77.17 <	9.06 <	40.44
17/01/2022 00:00	7.45 <	77.17 <	9.06 <	40.44
18/01/2022 00:00	7.44 <	77.1 <	9.04 <	40.43
19/01/2022 00:00	7.45 <	77.16 <	9.05 <	40.44
20/01/2022 00:00	7.44 <	77.11 <	9.04 <	40.43
21/01/2022 00:00	7.45 <	77.16 <	9.07 <	40.45
22/01/2022 00:00	7.45 <	77.14 <	9.04 <	40.44
23/01/2022 00:00	7.44 <	77.11 <	9.04 <	40.44
24/01/2022 00:00	7.44	77.08	9.03	40.43
25/01/2022 00:00	7.44	77.07	9.02	40.43
26/01/2022 00:00	7.44	77.08	9.01	40.44
27/01/2022 00:00	7.44 <	77.14 <	9.04 <	40.45
28/01/2022 00:00	7.44	77.1	9.03	40.42
29/01/2022 00:00	7.44	77.08	9.04	40.43
30/01/2022 00:00	7.44	77.09	9.04	40.44
31/01/2022 00:00	7.44	77.12	9.04	40.44
Average	7.3	75.1	17.7	39.5
Geom.Mean	7.3	74.9	11.9	39.4
Maximum	7.4	77.2	80.1	40.5
Median	7.4	77.1	9	40.4
Minimum	6.3	60.6	9	32.4
Mode	7.4	77.1	9	40.4
Std.Deviation	0.4	5.3	22.8	2.6
Total Active Duration				

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/02/2022 00:00
 To Date 28/02/2022 23:59
 Interval Daily
 Function Average

Plant	BSSK	BSSK	BSSK	BSSK
Analyzer	ETP1	ETP1	ETP1	ETP1
Parameter	pH	COD	TSS	BOD
Unit	pH	mg/l	mg/l	mg/l
Limit	5.50 - 9.00	0.00 - 250.00	0.00 - 100.00	0.00 - 100.00
01/02/2022 00:00	7.45 <	77.18 <	9.06 <	40.45 <
02/02/2022 00:00	7.44 <	77.06 <	9.02 <	40.43 <
03/02/2022 00:00	7.45 <	77.16 <	9.03 <	40.44 <
04/02/2022 00:00	7.45 <	77.13 <	9.01 <	40.44 <
05/02/2022 00:00	7.45 <	77.17 <	9.04 <	40.45 <
06/02/2022 00:00	7.44 <	77.13 <	9 <	40.42 <
07/02/2022 00:00	7.44	77.09	8.98	40.41
08/02/2022 00:00	7.44 D	77.08 D	8.97 D	40.41 D
09/02/2022 00:00	7.44	77.06	8.96	40.41
10/02/2022 00:00	7.44 <	77.06 <	8.97 <	40.41 <
11/02/2022 00:00	7.45 < D	77.13 < D	9 < D	40.43 < D
12/02/2022 00:00	7.44	77.09	8.97	40.42
13/02/2022 00:00	7.44	77.1	8.97	40.41
14/02/2022 00:00	7.44	77.09	8.97	40.41
15/02/2022 00:00	7.44	77.09	8.99	40.42
16/02/2022 00:00	7.44	77.08	8.98	40.41
17/02/2022 00:00	7.45	77.1	8.98	40.42
18/02/2022 00:00	7.45 <	77.09 <	8.95 <	40.42 <
19/02/2022 00:00	7.44	77.11	8.97	40.41
20/02/2022 00:00	7.44	77.1	8.96	40.41
21/02/2022 00:00	7.44 L	77.11	8.98	40.42
22/02/2022 00:00	7.45	77.1	8.96	40.42
23/02/2022 00:00	7.45	77.11	8.96	40.41
24/02/2022 00:00	7.45	77.12	8.96	40.41
25/02/2022 00:00	7.45 <	77.08 <	8.96 <	40.41 <
26/02/2022 00:00	7.45	77.12	8.97	40.42
27/02/2022 00:00	7.45	77.14	8.96	40.42
28/02/2022 00:00	7.45	77.12	8.95	40.41
Average	7.4	77.1	9	40.4
Geom.Mean	7.4	77.1	9	40.4
Maximum	7.4	77.2	9.1	40.5
Median	7.4	77.1	9	40.4
Minimum	7.4	77.1	9	40.4
Mode	7.4	77.1	9	40.4
Std.Deviation	0	0	0	0
Total Active Duration				

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/03/2022 00:00
 To Date 31/03/2022 23:59
 Interval Daily
 Function Average

Plant	BSSK	BSSK	BSSK	BSSK
Analyzer	ETP1	ETP1	ETP1	ETP1
Parameter	pH	COD	TSS	BOD
Unit	pH	mg/l	mg/l	mg/l
Limit	5.50 - 9.00	0.00 - 250.00	0.00 - 100.00	0.00 - 100.00
03/03/2022 00:00	7.45 <	77.19 <	8.98 <	40.43 <
04/03/2022 00:00	7.45 <	77.15 <	8.93 <	40.42 <
05/03/2022 00:00	7.44 <	77.1 <	8.93 <	40.41 <
06/03/2022 00:00	7.45 <	77.13 <	8.96 <	40.41 <
07/03/2022 00:00	7.45 <	77.19 <	8.97 <	40.42 <
08/03/2022 00:00	7.45	77.15	8.95	40.41
09/03/2022 00:00	7.45	77.11	8.93	40.39
10/03/2022 00:00	7.45	77.12	8.94	40.41
11/03/2022 00:00	7.45	77.12	8.94	40.41
12/03/2022 00:00	7.45	77.14	8.94	40.42
13/03/2022 00:00	7.45	77.16	8.95	40.43
14/03/2022 00:00	7.45	77.17	8.96	40.43
15/03/2022 00:00	7.45	77.16	8.95	40.43
16/03/2022 00:00	7.45 <	77.16 <	8.94 <	40.42 <
17/03/2022 00:00	7.45	11.64	8.93	40.42
18/03/2022 00:00	7.45	0	8.93	40.41
19/03/2022 00:00	7.45	0.05	8.92	40.4
20/03/2022 00:00	7.45 L	44.37	8.92	40.4
21/03/2022 00:00	7.45 <	0.17 <	8.91 <	40.39 <
22/03/2022 00:00	7.45	0	8.92	40.4
23/03/2022 00:00	7.45	0	8.92	40.41
24/03/2022 00:00	7.45	0	8.93	40.41
25/03/2022 00:00	7.45	0	8.93	40.4
26/03/2022 00:00	7.45 <	0 <	8.93 <	40.42 <
27/03/2022 00:00	7.45 <	0 <	8.92 <	40.41 <
28/03/2022 00:00	7.45	16.08	8.93	40.41
29/03/2022 00:00	7.45	77.17	8.94	40.42
30/03/2022 00:00	7.45	38.14	8.93	40.42
31/03/2022 00:00	7.45	0.19	8.93	40.42
Average	7.4	43.7	8.9	40.4
Geom.Mean	7.4	25.7	8.9	40.4
Maximum	7.5	77.2	9	40.4
Median	7.4	77.1	8.9	40.4
Minimum	7.4	0	8.9	40.4
Mode	7.4	0	9	40.4
Std.Deviation	0	36.7	0	0
Total Active Duration				

EnviroConnect Forbes Marshall Multi Station Report

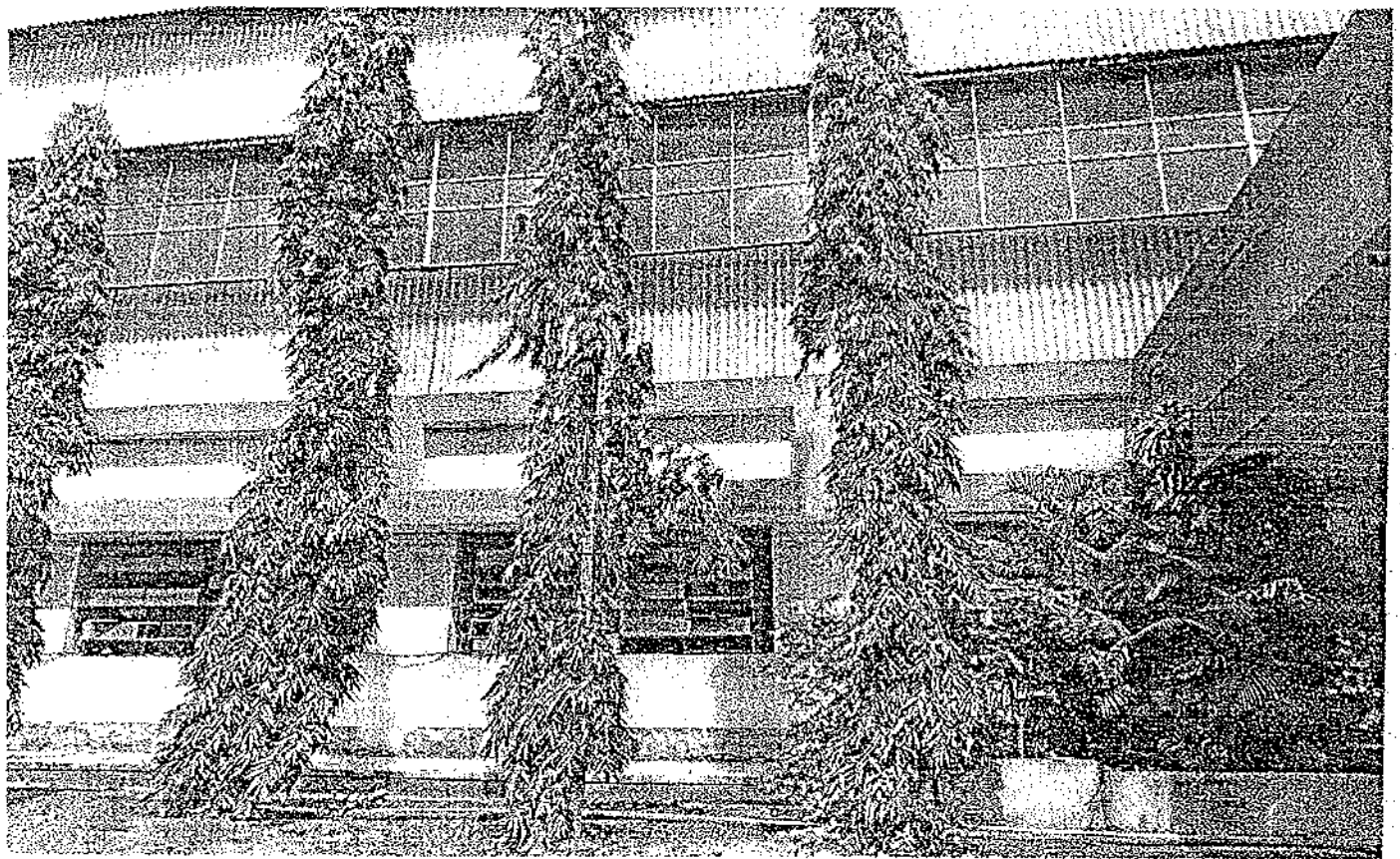
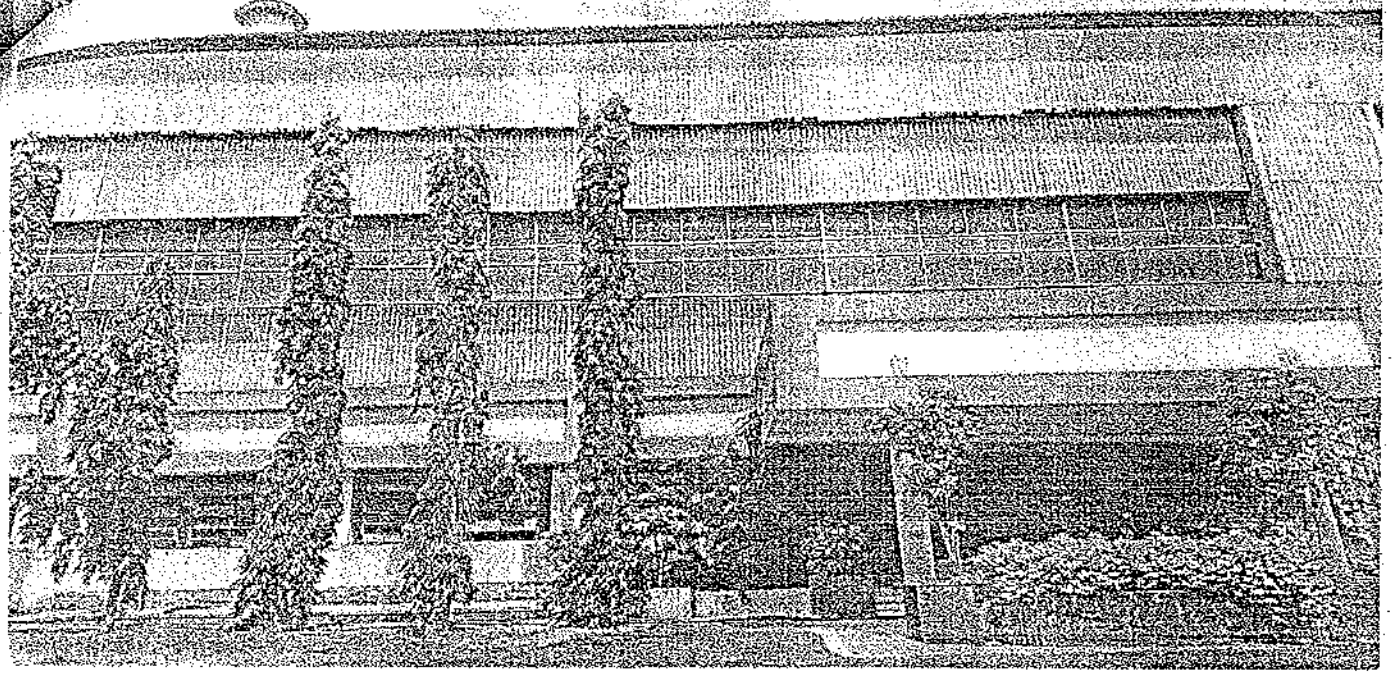
From Date 01/04/2022 00:00
 To Date 30/04/2022 23:59
 Interval Daily
 Function Average

Plant	BSSK	BSSK	BSSK	BSSK
Analyzer	ETP1	ETP1	ETP1	ETP1
Parameter	pH	COD	TSS	BOD
Unit	pH	mg/l	mg/l	mg/l
Limit	5.50 - 9.00	0.00 - 250.00	0.00 - 100.00	0.00 - 100.00
01/04/2022 00:00	7.45 <	0 <	8.95 <	40.44 <
02/04/2022 00:00	7.45	0	8.93	40.43
03/04/2022 00:00	7.45	0	8.92	40.41
04/04/2022 00:00	7.46 L	39.39	9.43	38.35
05/04/2022 00:00	7.59	75.2	10.01	37.08
06/04/2022 00:00	7.59	75.2	10	37.08
07/04/2022 00:00	7.59	75.2	10	37.09
08/04/2022 00:00	7.59	75.22	10.01	37.1
09/04/2022 00:00	7.59	75.22	10	37.09
10/04/2022 00:00	7.6 <	75.3 <	10.08 <	37.17 <
11/04/2022 00:00	7.59	75.22	10	37.08
12/04/2022 00:00	7.59	75.21	9.99	37.08
13/04/2022 00:00	7.6	75.21	4.82	37.09
14/04/2022 00:00	7.6	75.22	0	37.09
15/04/2022 00:00	7.6	75.22	0	37.09
16/04/2022 00:00	7.59 <	75.18 <	0 <	37.06 <
17/04/2022 00:00	7.6	75.22	0	37.08
18/04/2022 00:00	7.6	75.22	0	37.07
19/04/2022 00:00	7.6	75.21	0	37.08
20/04/2022 00:00	7.6	75.21	0	37.08
21/04/2022 00:00	7.6 <	75.22 <	0 <	37.06 <
22/04/2022 00:00	7.6 <	75.27 <	0 <	37.12 <
23/04/2022 00:00	7.6 <	75.21 <	0 <	37.08 <
24/04/2022 00:00	7.59 L	75.22	0	37.08
25/04/2022 00:00	7.6	75.23	0	37.09
26/04/2022 00:00	7.6	75.25	0	37.11
27/04/2022 00:00	7.6	75.24	0	37.11
28/04/2022 00:00	7.6	75.25	0	37.12
29/04/2022 00:00	7.6	75.26	0	37.11
30/04/2022 00:00	7.6	75.24	0	37.1
Average	7.6	66.5	4	37.5
Geom.Mean	7.6	73.4	9.2	37.5
Maximum	7.6	75.3	10.1	40.4
Median	7.6	75.2	0	37.1
Minimum	7.4	0	0	37.1
Mode	7.6	0	0	37.1
Std.Deviation	0	23.5	4.8	1
Total Active Duration				

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/05/2022 00:00
 To Date 31/05/2022 23:59
 Interval Daily
 Function Average

Plant	BSSK	BSSK	BSSK	BSSK
Analyzer	ETP1	ETP1	ETP1	ETP1
Parameter	pH	COD	TSS	BOD
Unit	pH	mg/l	mg/l	mg/l
Limit	5.50 - 9.00	0.00 - 250.00	0.00 - 100.00	0.00 - 100.00
01/05/2022 00:00	7.6 <	75.27 <	0 <	37.12
02/05/2022 00:00	7.6	75.22	0	37.09
03/05/2022 00:00	7.6	75.21	0	37.08
04/05/2022 00:00	7.59	75.21	0	37.09
05/05/2022 00:00	7.6	75.21	0	37.08
06/05/2022 00:00	7.6	75.22	0	37.09
07/05/2022 00:00	7.6	75.24	0	37.1
08/05/2022 00:00	7.6	75.23	0	37.11
09/05/2022 00:00	7.59	75.22	0	37.09
10/05/2022 00:00	7.59	75.2	0	37.07
11/05/2022 00:00	7.59	75.2	0	37.07
12/05/2022 00:00	7.59	75.17	0	37.06
13/05/2022 00:00	7.59 < D	75.13 < D	0 < D	37.02
14/05/2022 00:00	7.59	75.18	0	37.06
15/05/2022 00:00	7.59	75.2	0	37.07
16/05/2022 00:00	7.59 D	75.21 D	0 D	37.09
17/05/2022 00:00	7.59	75.21	0	37.08
18/05/2022 00:00	7.59	75.2	0	37.08
19/05/2022 00:00	7.59	75.21	0	37.08
20/05/2022 00:00	7.59	75.16	0	37.04
21/05/2022 00:00	7.59	75.17	0	37.04
22/05/2022 00:00	7.59 DL	75.11 D	0 D	37.02
23/05/2022 00:00	7.59	75.2	0	37.06
24/05/2022 00:00	7.59	75.2	0	37.07
25/05/2022 00:00	7.59	75.2	0.01	37.08
26/05/2022 00:00	7.59	75.19	0	37.08
27/05/2022 00:00	7.59 < D	75.14 < D	0 < D	37.03
28/05/2022 00:00	7.59 < D	75.23 < D	0 < D	37.09
29/05/2022 00:00	7.59	75.2	0	37.06
30/05/2022 00:00	7.59 L	75.18	0	37.05
31/05/2022 00:00	7.59 <	75.18 <	0 <	37.06
Average	7.6	75.2	0	37.1
Geom.Mean	7.6	75.2	0	37.1
Maximum	7.6	75.3	0	37.1
Median	7.6	75.2	0	37.1
Minimum	7.6	75.1	0	37
Mode	7.6	75.2	0	37.1
Std.Deviation	0	0	0	0



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 SEAC-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: -

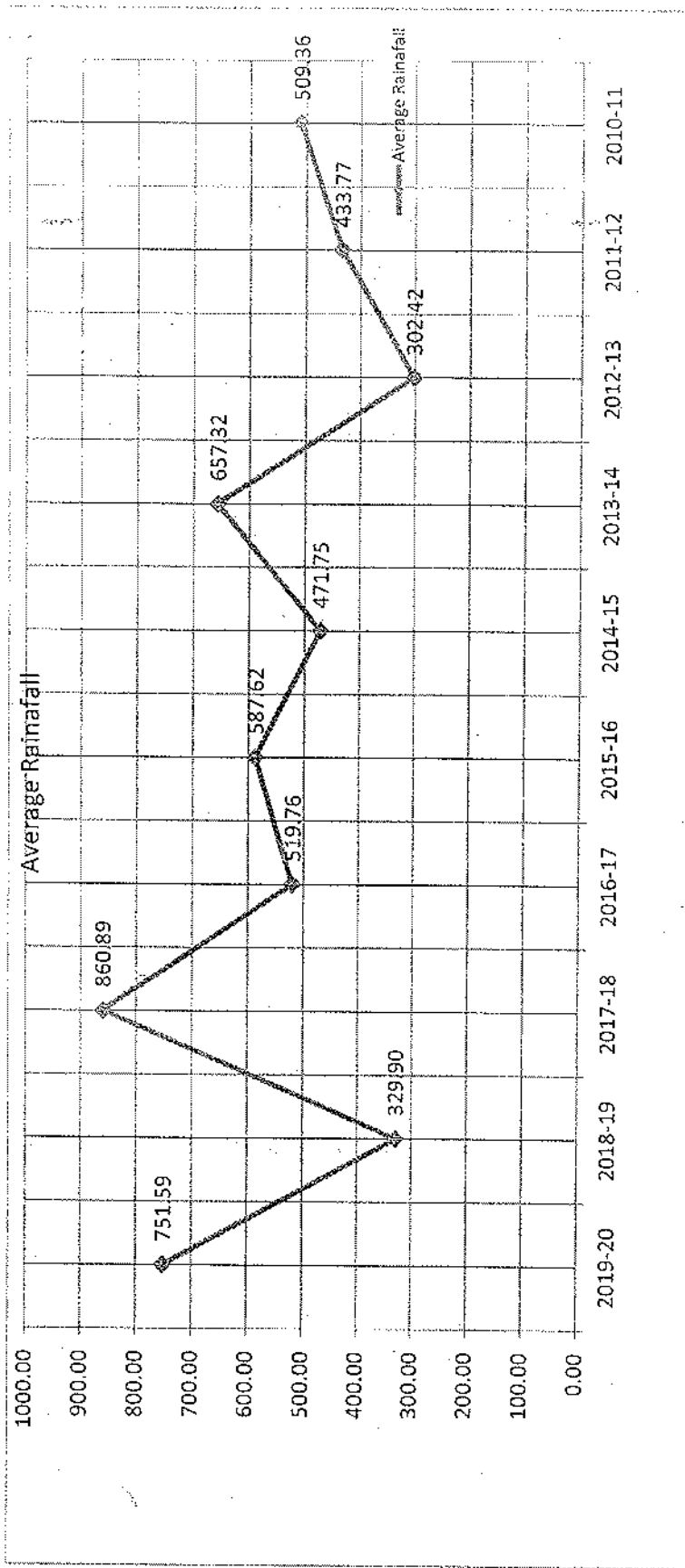
SR.NO	AREA CALCULATIONS	Area in Sq mt
1	Total area of plot	5,80,000.00
2	A) Area of sugar factory unit	5341.78
	B) Area under Distillery (Proposed)	14112.00
	C) Area under industrial activity	60503.00
	(A+B) Total area of industry	79956.78
3	Area of residential building	7218.94
4	Parking Area	3064.80
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	96000.00
11	Area under road	43000.00
12	Area under switch yard	4416.00

Rainfall at Project Site: -

Year	Janu ary	Febru ary	March	April	May	June	July	Augus t	Septembe r	Octobe r	November	Dece mber	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	509.36
Average Rain Fall (ten years)													542.44

Source: Data Provided by PP.

Yearly Rainfall Graph for 10 years.



(8)

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

$$\begin{aligned} \text{Annual rain fall} &= \text{Plot area} \times \text{Average annual rain fall} \times \text{Runoff coefficient} \\ &= 580,000 \times 0.86 \times 0.50 \\ &= 249400.00 \text{ M}^3 \end{aligned}$$

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

5	Lawns	0.30-0.15
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B) After construction: -

1) Total Area under industrial:

$$\begin{aligned} & \text{Area of industry} \times \text{Average annual rain fall} \times \text{Runoff coefficient} \\ & = 79956.78 \times 0.86 \times 0.90 \\ & = \mathbf{61886.54 \text{ M}^3} \end{aligned}$$

2) Area under residential building:

$$\begin{aligned} & \text{Area of building} \times \text{Average annual rain fall} \times \text{Runoff coefficient} \\ & = 7218.94 \times 0.86 \times 0.90 \\ & = \mathbf{5587.45 \text{ M}^3} \end{aligned}$$

3) Area under parking & other than residential building:

$$\begin{aligned} & \text{Area of building} \times \text{Average annual rain fall} \times \text{Runoff coefficient} \\ & = 8635.93 \times 0.86 \times 0.75 \\ & = \mathbf{5570.17 \text{ M}^3} \end{aligned}$$

4) Area under labor camp:

$$\begin{aligned} & \text{Area of building} \times \text{Average annual rain fall} \times \text{Runoff coefficient} \\ & = 162,566.63 \times 0.86 \times 0.75 \\ & = \mathbf{104,855.47 \text{ M}^3} \end{aligned}$$

5) Area of open land:

$$\begin{aligned} & \text{Area of building} \times \text{Average annual rain fall} \times \text{Runoff coefficient} \\ & = 78205 \times 0.86 \times 0.60 \\ & = \mathbf{40353.78 \text{ M}^3} \end{aligned}$$

6) Area of green belt:-

$$\begin{aligned} & \text{Area of building} \times \text{Average annual rain fall} \times \text{Runoff coefficient} \\ & = 196000 \times 0.86 \times 0.15 \\ & = \mathbf{25284.00 \text{ M}^3} \end{aligned}$$

7) Area of under road: -

$$\begin{aligned} & \text{Area of building} \times \text{Average annual rain fall} \times \text{Runoff coefficient} \\ & = 43000 \times 0.86 \times 0.80 \\ & = 29584.0 \text{ M}^3 \end{aligned}$$

8) Area of under switch yard: -

$$\begin{aligned} & \text{Area of building} \times \text{Average annual rain fall} \times \text{Runoff coefficient} \\ & = 4416 \times 0.86 \times 0.75 \\ & = 2848.32 \text{ M}^3 \end{aligned}$$

Total rain water available – (1+2+3+4+5+6+7+8) = 2,75,969.76 M³

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 M³/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.

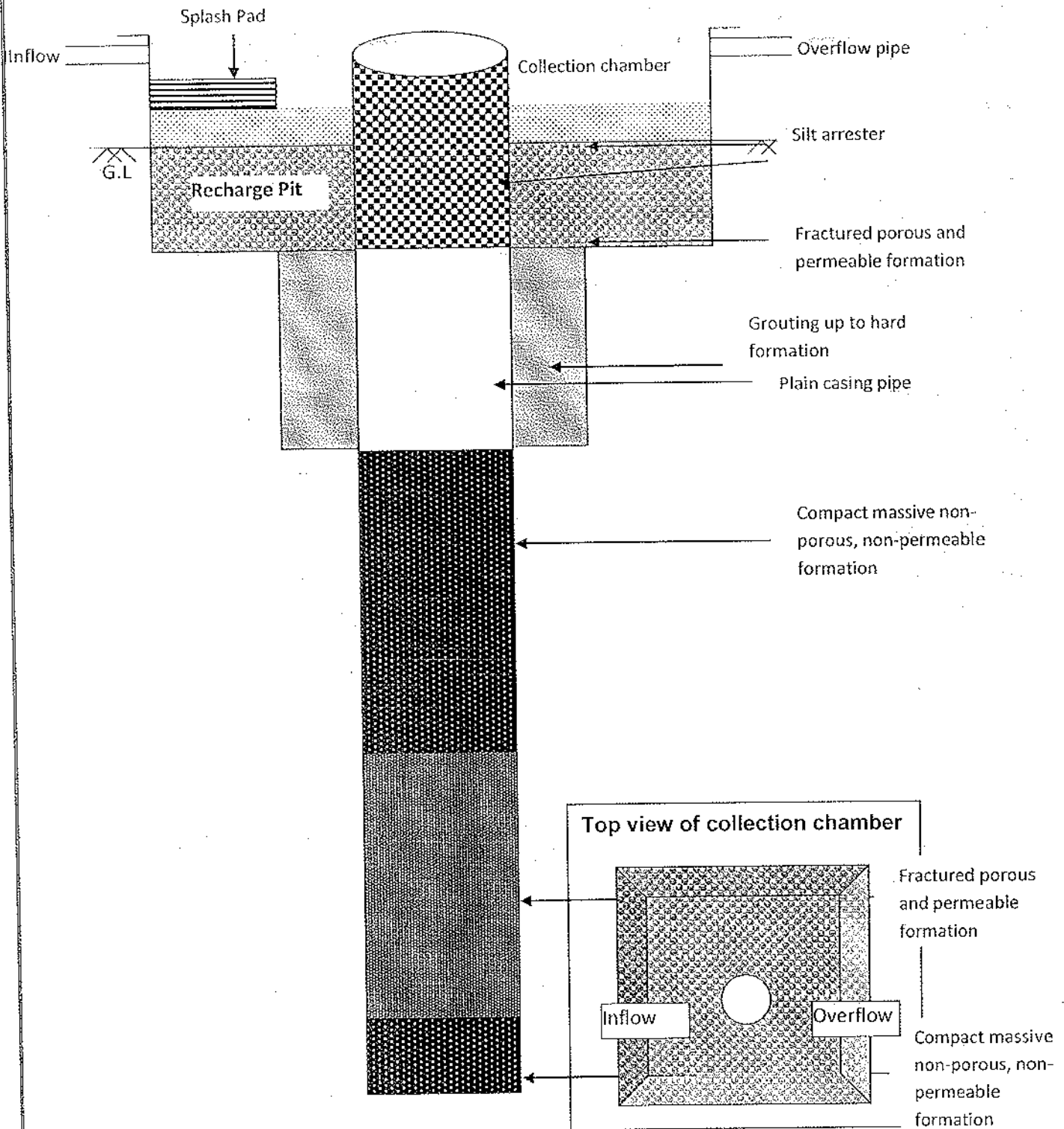
Highly favourable zones, which can help for recharge, are identified. Based on subsurface lithology, drainage pattern, possibility of roof water and surface runoff generation, suitable recharge structures are designed. Utmost care shall have to take in creating artificial recharge structures. Study has 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:

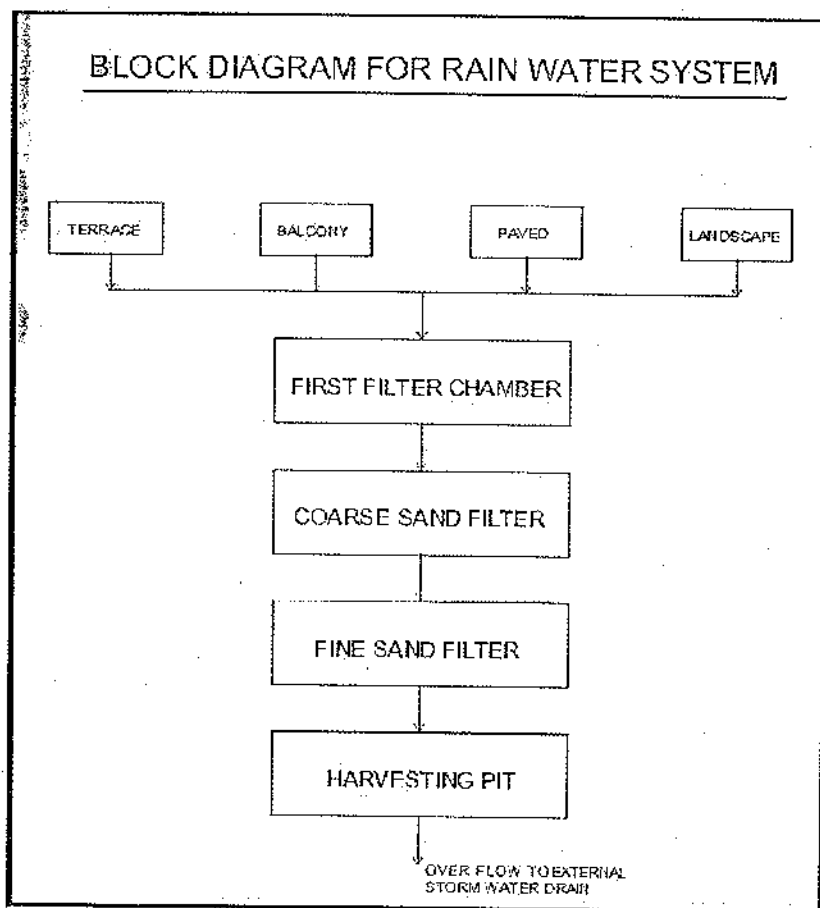
- Proper utilization of available runoff to facilitate withdrawal
- Improves sustainability to nearby groundwater structure
- Reduces surface runoff, preventing choking and over-flooding of storm drains
- Flooding and water stagnation on roads and open areas is avoided.
- Reduction in groundwater pollution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

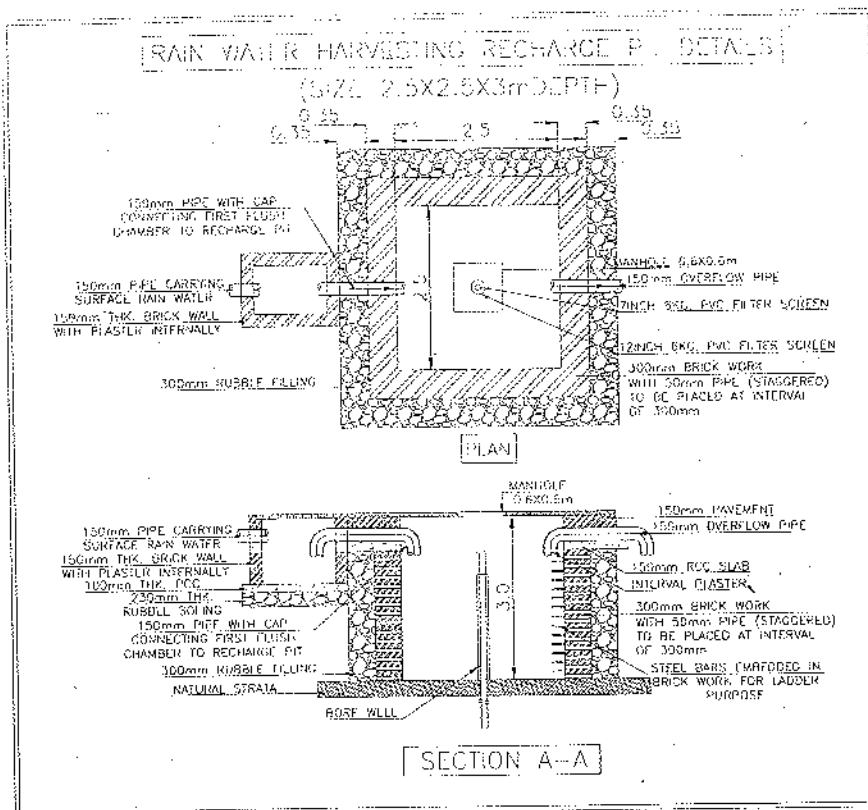
Schematic of Drawing of Recharge Pit with Bore Well:-



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

= $61887.0 / 10 = 6188.7 \text{ M}^3$ 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.).

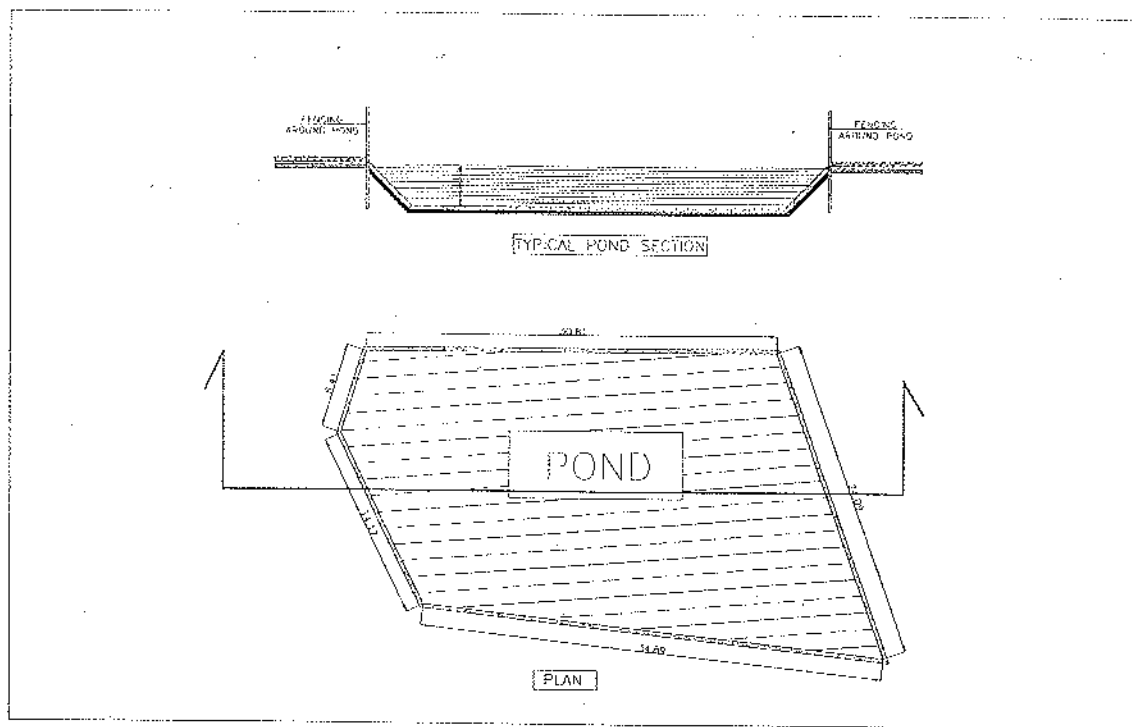
According to above we have done around 10 lac liter of water recharge into ground with providing 10 number of recharge pits and bore wells.

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.

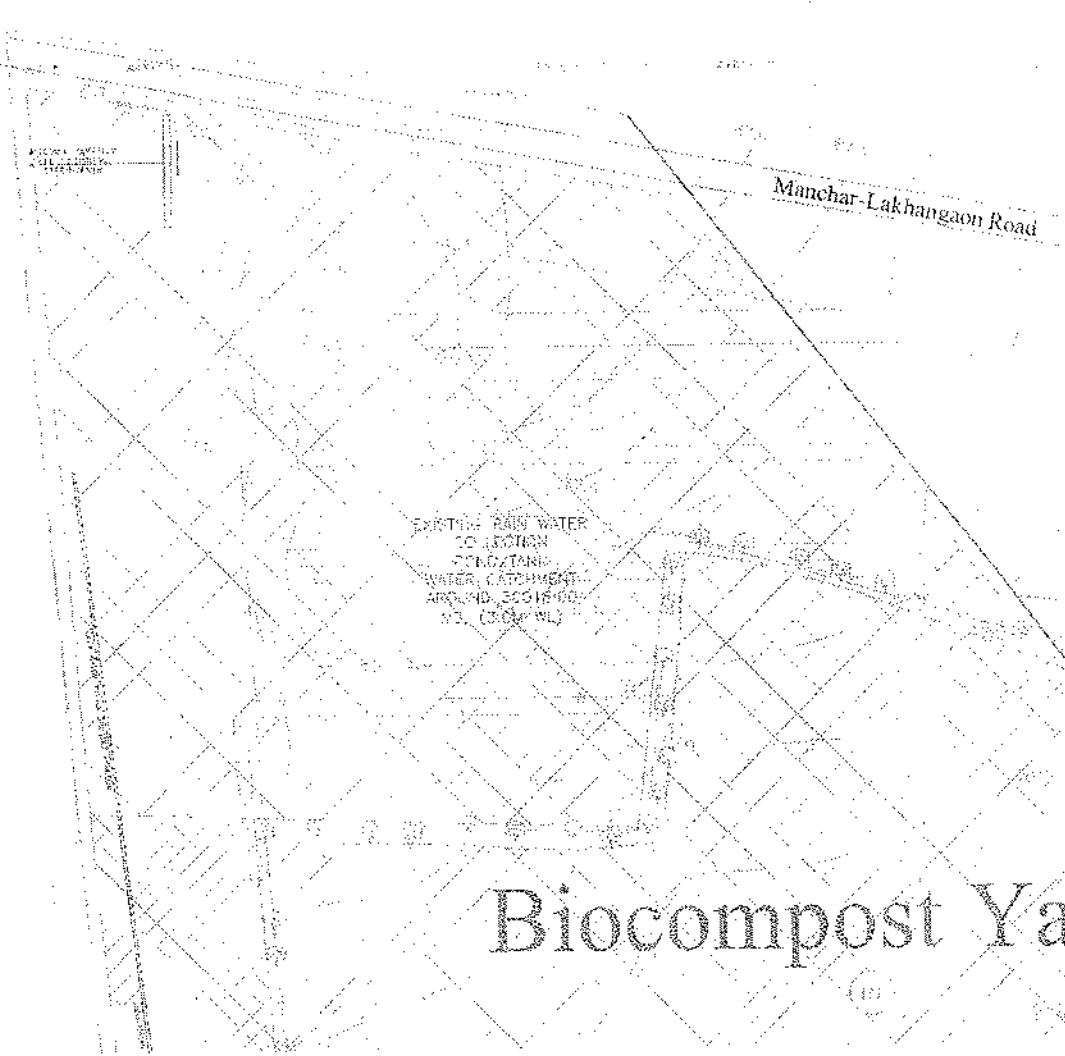
Also, we are using existing natural pond for water collection and storage of rain water, capacity around 30018.00 M³ with water depth of 3.0M.

Conclusions: -

1) Proposed Storage Tank

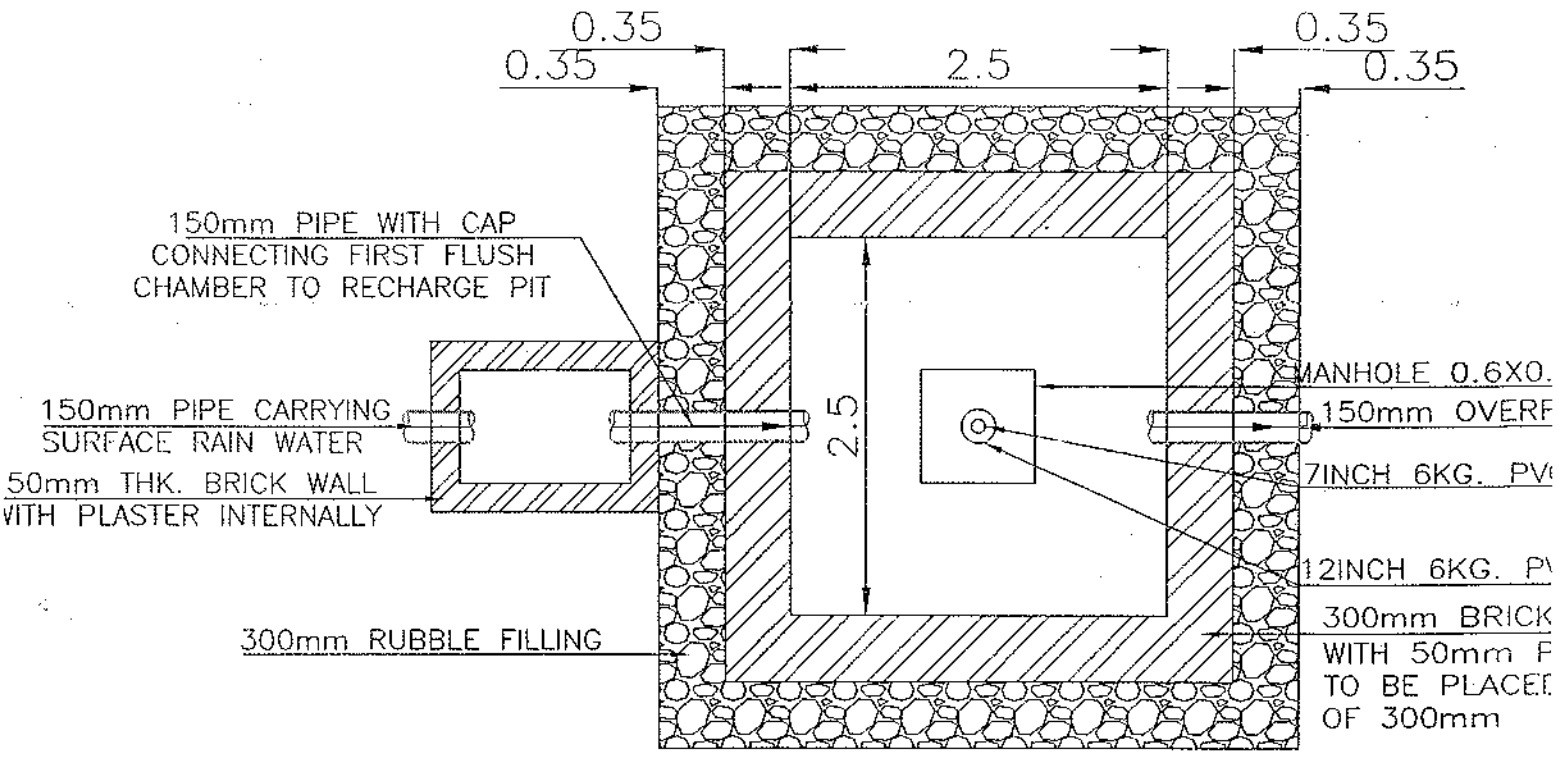


2) Existing Rain water storage Tank/ Pond

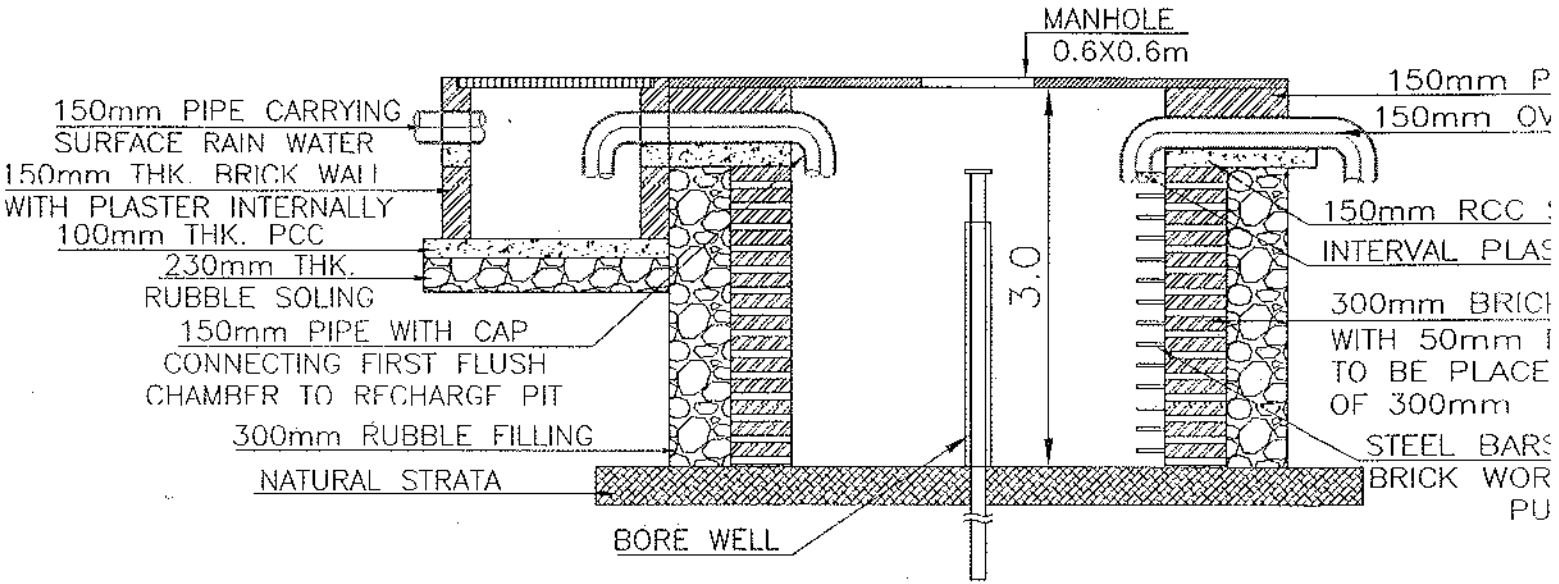


RAIN WATER HARVESTING RECHARGE PIT DESIGN

(SIZE 2.5X2.5X3mDEPTH)



PLAN



SECTION A-A



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		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/44-922/2021-22
Sample Testing Location Laboratory		Report Date 01/02/2022
Sample Detail Borewell Water-Ramesh Jadhav- East side		Inward No 1-495
Sample Collected By Party		Inward Date 25/01/2022
		Analysis Start date 27/01/2022
		Analysis End date 31/01/2022
		Sample Condition Fit For Analysis
		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	0.45	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	2118	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C		8.25	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1377	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	45.0	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	302	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	650	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	176	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	50.4	≤30.0	APHA 23 rd Edition 2017 3500- Mg D Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	419	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	4.88	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.03	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ As per Specified above analysis water sample is not within the desirable limits.
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- ❖ All the test conducted at permanent location not at out source
- ❖ 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
- ❖ Opinion and Interpretation - Not applicable

Aishwarya

Prepared by
(Aishwarya Bobade)

Vipul

Reviewed by
(Vipul Waghmare)

Karuna

Authorized Signatory
(Mrs. Karuna Kadam-Dhad)

...End of test report...

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TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karidhara Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No AL/TR/44-925/2021-22
Sample Testing Location Laboratory		Report Date 01/02/2022
Sample Detail Ground water-ramdas chivan well water- East side		Inward No AL/W/01-08/1/2021-22
Sample Collected By Party		Inward Date 25/01/2022
		Analysis Start date 27/01/2022
		Analysis End date 31/01/2022
		Sample Condition Fit For Analysis
		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	0.28	≤1.00	IS3025(Part-10)
4.	Conductivity	µMhos/cm	804	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C		8.27	6.5 to 8.5	IS 3025 (Part 11) RA 2012
6.	Total Dissolved Solids	mg/lit	517	≤500	Electrometric Method IS 3025 (Part 16) RA 2012
7.	Chlorides as Cl	mg/lit	41.0	≤250	Gravimetric method IS3025(Part-32) RA 2009
8.	Total Alkalinity as CaCO ₃	mg/lit	221	≤200	Argentometric Method IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	194	≤200	IS3025(Part-21) RA 2014
10.	Calcium as Ca	mg/lit	34.7	≤75.0	EDTA Titrimetric method IS3025(Part-40) RA 2009
11.	Magnesium as Mg	mg/lit	27.4	≤30.0	EDTA Method APHA 23 rd Edition 2017 3500- Mg B
12.	Sulphate as SO ₄ ²⁻	mg/lit	24.0	≤200	Calculation method APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	4.31	≤45.0	APHA 23 rd Edition 20174500-E-NO ₃
14.	Iron as Fe	mg/lit	0.03	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E-Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

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- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and Interpretation - Not applicable

Prepared by
(Aishwarya Bobade)

Reviewed by
(Vipul Waghmare)

Authorized Signatory
(Mrs. Karuna Kadam-Dharam)

End of test report

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TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Dhima Shankar Sahakar Sakhar Karbhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Amibegaon, Dist. - Pune-412406.		Report No AL/TR/44-923/2021-22
Sample Testing Location Laboratory		Report Date 01/02/2022
Sample Detail Well Water-Bharat Dhobale- North side		Inward No 1-496
Sample Collected By Party		Inward Date 25/01/2022
		Analysis Start date 27/01/2022
		Analysis End date 31/01/2022
		Sample Condition Fit For Analysis
		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	0.34	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHos/cm	812	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C		8.99	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	528	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	48.0	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	221	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	224	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	68.8	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	17.3	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	32.3	≤200	APHA 23 rd Edition 2017 4500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	3.56	≤45.0	APHA 23 rd Edition 2017 4500-B-NO ₃
14.	Iron as Fe	mg/lit	0.04	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

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- ❖ All the test conducted at permanent location not at out source
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- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Aishwarya
Prepared by
(Aishwarya Bobade)

Vipul
Reviewed by
(Vipul Waghmare)

[Signature]
Authorized Signatory
(Mr. Karuna Kadam-Dhads)

...End of test report...



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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/44-924/2021-22
Sample Testing Location		Report Date	01/02/2022
Sample Detail		Inward No	1-497
Sample Collected By		Inward Date	25/01/2022
Laboratory		Analysis Start date	27/01/2022
Well Water-Yogesh bhimaji pingale- South side		Analysis End date	31/01/2022
Party		Sample Condition	Fit For Analysis
		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	0.34	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	778	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C		8.1	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	506	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	36.0	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	217	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	180	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	30.4	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	25.0	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	26.0	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	4.22	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.05	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	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
- ❖ Opinion and interpretation - Not applicable

Prepared by
(Aishwarya Bobade)

Reviewed by
(Vipul Waghmare)

Authorized Signatory
(Mrs. Karuna Kadam-Dhaded)

...End of test report...

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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatrayanagar, Pargaon Village-Awasari Ek.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AI/TR/44-921/2021-22
		Report Date	01/02/2022
		Inward No	1-494
Sample Testing Location	Laboratory	Inward Date	25/01/2022
Sample Detail	Borewell water-Pandurang Dhoble- West side	Analysis Start date	27/01/2022
Sample Collected By	Party	Analysis End date	31/01/2022
		Sample Condition	Fit For Analysis
		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	0.25	≤1.00	IS3025(Part-10)
4.	Conductivity	µMhos/cm	693	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.98	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	451	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	28.0	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	185	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	220	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	54.4	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	20.2	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	19.2	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	3.17	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.02	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MBN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

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- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Prepared by
(Aishwarya Bobade)

Reviewed by
(Vipul Waghmare)

Authorized Signatory
(Mrs. Karuna Kadam-Dhase)

...End of test report...

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TEST REPORT		Page 1 of 1
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/45-481/2021-22
Sample Testing Location		Report Date 04/03/2022
Sample Detail		Inward No 2-456
Sample Collected By		Inward Date 25/02/2022
Laboratory	East side Well water- Shri Ramesh Gaikwad	Analysis Start date 26/02/2022
	Party	Analysis End date 03/03/2022
		Sample Condition Fit For Analysis
		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	0.73	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	1747	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C		8.23	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1136	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	115	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	603	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	410	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	76.0	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	52.8	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	105	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	8.44	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.05	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

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- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and Interpretation - Not applicable

Prepared by
Aishwarya Bobade

Reviewed by
Vipul Waghmare

Authorized Signatory
(Mrs. Kamini Jadhav Phanse)

End of test report

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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/45-482/2021-22
Sample Testing Location		Report Date 04/03/2022
Sample Detail		Inward No 2-457
Sample Collected By		Inward Date 25/02/2022
Laboratory	West side Well Water- Shri. Dhondiram Pingale	Analysis Start date 26/02/2022
	Party	Analysis End date 03/03/2022
		Sample Condition Fit For Analysis
		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	0.69	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	1620	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.34	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1053	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	105	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	432	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	520	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	56.0	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	91.2	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	68.1	≤200	APHA 23 rd Edition 2017 4500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	11.0	≤45.0	APHA 23 rd Edition 2017 4500-B-NO ₃
14.	Iron as Fe	mg/lit	0.04	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

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- ❖ All the test conducted at permanent location not at out source
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- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable.

Prepared by
(Aishwarya Bobade)

Reviewed by
(Vipul Waghmare)

Authorized Signatory
(Mrs. Karuna Kadam Dhadke)

End of test report

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TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karichana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No AL/TR/45-480/2021-22
Sample Testing Location		Report Date 04/03/2022
Sample Detail		Inward No 2-455
Sample Collected By		Inward Date 25/02/2022
Laboratory	South side Well Water- Shri Pandurang Walase	Analysis Start date 26/02/2022
	Party	Analysis End date 03/03/2022
		Sample Condition Fit For Analysis
		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	0.80	≤1.00	IS3025(Part-10)
4.	Conductivity	µMhos/cm	236	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C		8.22	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1140	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	120	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	342	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	640	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	136	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	72.0	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	525	≤200	APHA 23 rd Edition 2017 4500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	13.3	≤45.0	APHA 23 rd Edition 2017 4500-B-NO ₃
14.	Iron as Fe	mg/lit	0.07	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	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 sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ 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
- ❖ Opinion and Interpretation - Not applicable

Prepared by
(Aishwarya Bobade)

Reviewed by
(Vipul Waghmare)

Authorized Signatory
(Mastharam Karandhadse)

End of test report

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



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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/45-483/2021-22
Sample Testing Location Laboratory		Report Date 04/03/2022
Sample Detail North Side Borewell water- Shri Balasaheb Dhoble		Inward No 2-458
Sample Collected By Party		Inward Date 25/02/2022
		Analysis Start date 26/02/2022
		Analysis End date 03/03/2022
		Sample Condition Fit For Analysis
		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	0.09	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	648	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	-	8.43	6.5 to 8.5	IS 3025 (Part 11) RA 2012
6.	Total Dissolved Solids	mg/lit	421	≤500	Electrometric Method IS 3025 (Part 16) RA 2012
7.	Chlorides as Cl	mg/lit	30.0	≤250	Gravimetric method IS3025(Part-32) RA 2009
8.	Total Alkalinity as CaCO3	mg/lit	201	≤200	Argentometric Method
9.	Total Hardness as CaCO3	mg/lit	190	≤200	IS3025(Part-23)RA 2009
10.	Calcium as Ca	mg/lit	48.0	≤75.0	EDTA Titrimetric method IS3025(Part-40) RA 2009
11.	Magnesium as Mg	mg/lit	16.8	≤30.0	EDTA Method APHA 23 rd Edition 2017 3500- Mg B
12.	Sulphate as SO ₄ ²⁻	mg/lit	12.4	≤200	Calculation method APHA23 rd Edition 20174500-B-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	11.8	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.05	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	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
- ❖ Opinion and Interpretation - Not applicable

Prepared by
(Aishwarya Bobade)

Reviewed by
(Vipul Waghmare)

Authorized Signatory
(Mrs. Karuna Ganam Dhadse)

End of test report

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TEST REPORT

NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sanchar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No AL/TR/45-487/2021-22	Page 1 of 1
Sample Testing Location	Laboratory	Report Date 04/03/2022	Inward No AL/W/02-21/1/2021-22
Sample Detail	South Side Borewell water- Shri Yogesh Dhoble	Inward Date 25/02/2022	Analysis Start date 26/02/2022
Sample Collected By	Party	Analysis End date 03/03/2022	Sample Condition Fit For Analysis
		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	0.89	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	1648	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C		8.41	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	921	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	63.0	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	301	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	490	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	148	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	56.8	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	62.4	≤200	APHA23 rd Edition 20174500-B-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	10.5	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.07	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E-Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARKS

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- ❖ Above analysis results are related to sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ 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
- ❖ Opinion and Interpretation - Not applicable

Aishwarya
Prepared by
(Aishwarya Bobade)

P.P.
Vipul
Reviewed by
(Vipul Waghmare)

Karuna
Authorized Signatory
(Mrs. Karuna Kadam Dhase)

...End of test report...

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NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karhdana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal. Ambegaon, Dist. - Pune-412406.		Report No AL/FR/45-967/2022-23	Page 1 of 1
Sample Testing Location Laboratory		Report Date 04/04/2022	Inward No 3-452
Sample Detail Well Water-Pavan Valso-East Side		Inward Date 27/03/2022	Analysis Start date 28/03/2022
Sample Collected By Party		Analysis End date 31/03/2022	Sample Condition Fit For Analysis
		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	NPU	0.30	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOS/cm	1790	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C		8.81	6.5 to 8.5	IS 3025 (Part 11) RA 2012
6.	Total Dissolved Solids	mg/lit	1164	≤500	Electrometric Method IS 3025 (Part 16) RA 2012
7.	Chlorides as Cl	mg/lit	103	≤250	Gravimetric method IS3025(Part-32) RA 2009
8.	Total Alkalinity as CaCO ₃	mg/lit	493	≤200	Argentometric Method
9.	Total Hardness as CaCO ₃	mg/lit	414	≤200	IS3025(Part-23)RA 2009
10.	Calcium as Ca	mg/lit	52.5	≤75.0	IS3025(Part-21) RA 2014 EDTA Titrimetric method
11.	Magnesium as Mg	mg/lit	67.9	≤30.0	IS3025(Part-40) RA 2009 EDTA Method
12.	Sulphate as SO ₄ ²⁻	mg/lit	221	≤200	APHA 23 rd Edition 2017 3500- Mg B Calculation method
13.	Nitrate as NO ₃	mg/lit	6.63	≤45.0	APHA23 rd Edition 20174500-B-SO ₄ ²⁻
14.	Iron as Fe	mg/lit	0.06	≤0.3	APHA 23 rd Edition 20174500-B-NO ₃ IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Absent	Absent	
16.	Fecal Coliform	MPN/100ml	Absent	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Absent	Absent	IS1622:1981 Reaff.2014

REMARK-

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- ❖ All the test conducted at permanent location not at out source
- ❖ 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
- ❖ Opinion and interpretation - Not applicable

Aishwarya
Prepared by
(Aishwarya Bobade)

P.P.
Ashy
Reviewed by
(Vipul Waghmare)

[Signature]
Authorized Signatory
(MIS. Karunikaadam/Blhds)

End of test report.

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TEST REPORT		Page 1 of 1
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/45-969/2022-23
Sample Testing Location	Laboratory	Report Date 04/04/2022
Sample Detail	Borewell Water-Navnath Mhetre-North Side	Inward No 3-454
Sample Collected By	Party	Inward Date 27/03/2022
		Analysis Start date 28/03/2022
		Analysis End date 31/03/2022
		Sample Condition Fit For Analysis
		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	NFU	0.39	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	2073	N/S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	-	8.08	6.5 to 8.5	IS 3025 (Part 11) RA 2012
6.	Total Dissolved Solids	mg/lit	1351	≤500	Electrometric Method IS 3025 (Part 16) RA 2012
7.	Chlorides as Cl	mg/lit	113	≤250	Gravimetric method IS3025(Part-32) RA 2009
8.	Total Alkalinity as CaCO ₃	mg/lit	558	≤200	Argentometric Method
9.	Total Hardness as CaCO ₃	mg/lit	515	≤200	IS3025(Part-23) RA 2009
10.	Calcium as Ca	mg/lit	101	≤75.0	IS3025(Part-21) RA 2014 EDTA Titrimetric method
11.	Magnesium as Mg	mg/lit	63.0	≤30.0	IS3025(Part-40) RA 2009 EDTA Method
12.	Sulphate as SO ₄ ²⁻	mg/lit	389	≤200	APHA 23 rd Edition 2017 3500- Mg B Calculation method
13.	Nitrate as NO ₃	mg/lit	14.8	≤45.0	APHA 23 rd Edition 2017 4500-E-SO ₄ ²⁻
14.	Iron as Fe	mg/lit	0.05	≤0.3	APHA 23 rd Edition 2017 4500-B-NO ₃ IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	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 sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ 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
- ❖ Opinion and Interpretation - Not applicable

Prepared by
(Aishwarya Bobade)

Reviewed by
(Vipul Wagmare)

Authorised Signatory
(Mrs. Karuna Kadam-Dhad)

End of test report

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TEST REPORT

NAME OF COMPANY & ADDRESS: M/s. Dhima Shankar Sahakari Sakhar Karbhava Ltd. Dattatraynagar, Pargaon Village-Awasari Bk Tal-Ambegaon, Dist. - Pune-412406.		Report No AL/TR/45-966/2022-23	Page 1 of 1
Sample Testing Location	Laboratory	Report Date 04/04/2022	Inward No 3-451
Sample Detail	Borewell Water-Balasaheb Wavre-West Side	Inward Date 27/03/2022	Analysis Start date 28/03/2022
Sample Collected By	Party	Analysis End date 31/03/2022	Sample Condition Fit For Analysis
		Sample Volume 2250 ml	

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤500	IS3025(Part-4)
2.	Odour		Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.32	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	1783	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C		8.30	6.5 to 8.5	IS 3025 (Part 11) RA 2012
6.	Total Dissolved Solids	mg/lit	1159	≤500	Electrometric Method IS 3025 (Part 16) RA 2012
7.	Chlorides as Cl	mg/lit	98.5	≤250	Gravimetric method IS3025(Part-32) RA 2009
8.	Total Alkalinity as CaCO ₃	mg/lit	471	≤200	Argentometric Method IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	424	≤200	IS3025(Part-21) RA 2014
10.	Calcium as Ca	mg/lit	56.6	≤75.0	EDTA Titrimetric method IS3025(Part-40) RA 2009
11.	Magnesium as Mg	mg/lit	67.9	≤30.0	EDTA Method
12.	Sulphate as SO ₄ ²⁻	mg/lit	297	≤200	APHA 23 rd Edition 2017 3500- Mg B Calculation method
13.	Nitrate as NO ₃	mg/lit	22.9	≤200	APHA 23 rd Edition 2017 4500- E-SO ₄ ²⁻
14.	Iron as Fe	mg/lit	0.04	≤45.0	APHA 23 rd Edition 2017 4500- E-NO ₃ IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	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 sample as tested.
- ❖ All the test conducted at permanent location not at out source
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- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Prepared by:
(Aishwarya Bobade)

Reviewed by:
(Vipul Waghmare)

Authorized Signatory
(Mrs. Anurag Radam Dhadke)

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.-Aahlegaon, Dist. - Pune-412406.		Report No	Page 1 of 1 AL/TR/45-965/2022-23
Sample Testing Location	Laboratory	Report Date	04/04/2022
Sample Detail	Borewell water-Santosh Kasbe- South Side	Inward No	3-450
Sample Collected By	Party	Inward Date	27/03/2022
		Analysis Start date	28/03/2022
		Analysis End date	31/03/2022
		Sample Condition	Fit For Analysis
		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	0.25	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	1745	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C		7.93	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1115	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	128	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO3	mg/lit	328	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO3	mg/lit	667	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	125	≤750	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	84.8	≤300	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	219	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	2.96	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.05	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

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- ❖ All the test conducted at permanent location not at out source
- ❖ 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
- ❖ Opinion and interpretation - Not applicable

Aishwarya

Prepared by
(Aishwarya Bobade)

P.P. Aishwarya

Reviewed by
(Vipul Waghmare)

[Signature]

Authorized Signatory
(Mrs. Jyoti Grami-Dhase)

End of test report.

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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 Blk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No AL/TR/45-968/2022-23
Sample Testing Location		Report Date 04/04/2022
Laboratory		Inward No 3-453
Sample Detail		Inward Date 27/03/2022
Borewell water-Sushant Sonawane-North Side		Analysis Start date 28/03/2022
Sample Collected By		Analysis End date 31/03/2022
Party		Sample Condition Fit For Analysis
		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	0.45	≤1.00	IS3025(Part-10)
4.	Conductivity	µMhos/cm	2233	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C		8.27	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1145	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	128	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	536	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	505	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	923	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	48.5	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	383	≤200	APHA 23 rd Edition 2017 4500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	17.1	≤45.0	APHA 23 rd Edition 2017 4500-B-NO ₃
14.	Iron as Fe	mg/lit	0.07	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Focal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	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 sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ 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
- ❖ Opinion and interpretation - Not applicable

Prepared by
Aishwarya Bobade

Reviewed by
Vipul Waghmare

Authorized Signatory
Mrs. Kamaladevi Dhadse

End of test report.

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses,
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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AI/TR/16-515/2022-23
Sample Testing Location		Report Date	06/05/2022
Sample Detail		Inward No	4-463
Sample Collected By		Inward Date	26/04/2022
Laboratory		Analysis Start date	28/04/2022
Well Water-Santosh Dhoble-East Side		Analysis End date	02/05/2022
Party		Sample Condition	Fit For Analysis
		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	0.29	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	352	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	-	8.13	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	229	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	9.78	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	100	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	113	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	24.7	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	12.4	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	6.72	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	14.5	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.04	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Colliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Absent	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Absent	Absent	IS1622:1981 Reaff.2014

REMARK-

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- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Prepared by
(Aishwarya Bobade)

Reviewed by
(Vipul Waghmare)

Authorized Signatory
(Mrs. Karan Khatam Dhade)

End of test report

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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 AT/TR/46-516/2022-23
Sample Testing Location Laboratory		Report Date 06/05/2022
Sample Detail Well Water-Mahesh Shinde- South side		Inward No 4-464
Sample Collected By Party		Inward Date 26/04/2022
		Analysis Start date 28/04/2022
		Analysis End date 02/05/2022
		Sample Condition Fit For Analysis
		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	0.27	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	295	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	-	7.95	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	192	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	9.78	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	93.5	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	86.5	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	22.2	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	7.42	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	5.49	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	14.4	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Absent	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Absent	Absent	IS1622:1981 Reaff.2014
17.	E- Coll	MPN/100ml	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
- Opinion and Interpretation - Not applicable

Aishwarya

Prepared by
(Aishwarya Bobade)

Vipul

Reviewed by
(Vipul Waghmare)

Karuna

Authorized Signatory
(Mrs. Karuna Madam-Bobade)

End of test report

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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/46-517/2022-23
Sample Testing Location Laboratory		Report Date 06/05/2022
Sample Detail Borewell Water-Sopan Jadhav- East side		Inward No 4-465
Sample Collected By Party		Inward Date 26/04/2022
		Analysis Start date 28/04/2022
		Analysis End date 02/05/2022
		Sample Condition Fit For Analysis
		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	0.63	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	2341	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C		7.96	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.	Chlorides as Cl	mg/lit	68.5	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	231	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	422	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	78.3	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	54.4	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	303	≤200	APHA23 rd Edition 20174500-B-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	2.71	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.03	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

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- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and Interpretation - Not applicable

Aishwarya
Prepared by
(Aishwarya Bobade)

Vipul
Reviewed by
(Vipul Waghmare)

(Signature)
Authorized Signatory
(Mrs. Kamal Kadam Bhadke)

End of test report



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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-Awasuri Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No AL/TR/46-518/2022-23
Sample Testing Location Laboratory		Report Date 06/05/2022
Sample Detail Borewell water-Suresh Borhade- North Side		Inward No 4-466
Sample Collected By Party		Inward Date 26/04/2022
		Analysis Start date 28/04/2022
		Analysis End date 02/05/2022
		Sample Condition Fit For Analysis
		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	0.54	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	1449	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C		8.44	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	942	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	73.4	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	392	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	381	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	37.1	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	69.2	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	50.6	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	1.72	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.03	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

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- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Aishwarya Bobade
Prepared by
(Aishwarya Bobade)

Vipul Waghmare
Reviewed by
(Vipul Waghmare)

Karuna Kadam
Authorized Signatory
(Mrs. Karuna Kadam Dhadar)

...End of test report...



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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AI/TR/16-519/2022-23
Sample Testing Location		Report Date	06/05/2022
Sample Detail		Inward No	4-467
Sample Collected By		Inward Date	26/04/2022
Laboratory	Well Water-Ganesh Borge- West side	Analysis Start date	28/04/2022
	Party	Analysis End date	02/05/2022
		Sample Condition	Fit For Analysis
		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	0.21	<1.00	IS3025(Part-10)
4.	Conductivity	µMHOS/cm	1735	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.37	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1128	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	108	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	452	≤200	IS3025(Part-23) RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	319	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	45.3	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	49.4	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	256	≤200	APHA 23 rd Edition 2017 4500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	13.5	≤45.0	APHA 23 rd Edition 2017 4500-E-NO ₃
14.	Iron as Fe	mg/lit	0.02	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

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- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Prepared by
(Aishwarya Bobade)

Reviewed by
(Vipul Waghmare)

Authorized Signatory
(Mrs. Krunal Kadam-Dharkse)

...End of test report.

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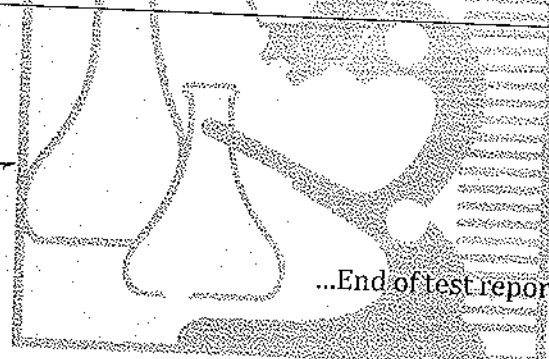
AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/63-625/21-22
		Report Date	01/02/2022
		Inward No	AL/7-378/09/21-22
Sample Location	Company Premises	Inward Date	23/01/2022
Sample Collected By	AARL	Sampling Time	03:00 PM To 03:30 PM
		Time duration	30 Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
A. Outside of Shop					
1.	Near Petrol Pump	dB(A)	72.9	≤ 75 dB(A)	IS 4763-1968 (PART 10) RA 2002
2.	Near Khandoba Temple	dB(A)	72.0		
3.	Near Guest House	dB(A)	68.2		
B. Inside of Shop					
4.	Near Mill House	dB(A)	81.8	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
5.	Near Boiler No-2	dB(A)	85.6		
6.	Near Boiling House	dB(A)	79.7		

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

Akshy
 Verified by
 (Analyst)

Cupul
 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 Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/64-096/21-22
		Report Date	04/03/2022
		Inward No	AL/7-413/09/21-22
Sample Location		Inward Date	24/02/2022
		Company Premises	Sampling Time
Sample Collected By	AARL	Time duration	30 Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
A. Outside of Shop					
1.	Near Petrol Pump	dB(A)	65.9	≤ 75 dB(A)	IS 4764-1968 (PART 10) RA 2002
2.	Near Bas stand	dB(A)	68.2		
3.	Main Gate	dB(A)	64.7		
B. Inside of Shop					
4.	Boiler (old)	dB(A)	82.3	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
5.	Sugar House	dB(A)	78.1		
6.	Near Gavhan	dB(A)	76.5		

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:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/64-613/22-23
		Report Date	04/04/2022
		Inward No	AL/7-453/09/22-23
		Inward Date	27/03/2022
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)	64.3	≤ 75 dB(A)	IS 4764-1968 (PART 10) RA 2002
2.	Near karkhana colony	dB(A)	62.5		
3.	Near Bagasse	dB(A)	67.6		
B. Inside of Shop					
4.	Boiler No-3	dB(A)	73.2	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
5.	Sakhar shala	dB(A)	70.9		
6.	Near godawan	dB(A)	69.7		

REMARK, OPINION & INTERPRITATION-

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Verified by
(Analyst)


Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

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

AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/65-053/22-23
		Report Date	04/05/2022
		Inward No	AL/7-496/09/22-23
		Inward Date	26/04/2022
Sample Location	Company Premises	Sampling Time	03:20 PM To 03:50 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
A. Outside of Shop					
1.	Kopi yard	dB(A)	62.7	≤ 75 dB(A)	IS 4764-1968 (PART 10) RA 2002
2.	Near Canteen	dB(A)	58.3		
3.	South yard	dB(A)	64.5		
B. Inside of Shop					
4.	Near Mill House	dB(A)	76.4	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
5.	Near Spray Pond	dB(A)	67.2		
6.	Near Building House	dB(A)	63.1		

REMARK, OPINION & INTERPRITATION-

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

Verified by
(Analyst)

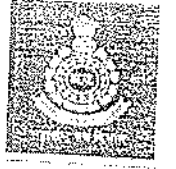
Authorized Signatory

...End of test report...



वन परिक्षेत्र अधिकारी, मंचर(प्रा) यांचे कार्यालय
वनसावित्री उद्यान, अवसरी घाट तालुका आंबेगाव, जिल्हा पुणे
E- Mail ifomanchar@gmail.com

AN:VIII



विषय - झाडांमधील अंतर प्रमाणित करून
मिळणेबाबत..

जा./क्र./संकिर्ण/ १७६८/२०१९ - २०

मंचर ४१०५०३ दिनांक - ०२/१२/२०१९

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

वरील विषयी वनपाल धामणी व वनरक्षक लाखनगाव यांनी भीमाशंकर 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.



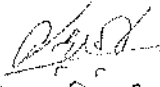
जाक्र/ताकृअ/ विस्तार/3874/2019
तालुका कृषि अधिकारी, आंबेगाव
(घोडेगाव) दि. 2/11/2019

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

विषय -- झाडांमधील अंतर प्रमाणित करून मिळणेबाबत ;
संदर्भ -- भिमशंकर सहकारी साखर कारखाना पारगाव त.अवसरी बु यांचे कडील
पत्र जाक्र /शेतकरी /2369/19 दिनांक 27/11/19.

उपरोक्त संदर्भीय विषयान्वये कळविण्यात येते की, भिमशंकर सहकारी साखर कारखाना
परिसरातील कार्यक्षेत्रामध्ये जास्तीत जास्त झाडे लावून परिसर हरीत करणेसाठी सोबत जोडलेल्या
यादीप्रमाणे 19.43 हे.आर क्षेत्रात 6502 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

गीमाशंकर सहकारी साखर कारखाना लि., दत्तात्रयनगर

पारगाव तर्फे जवसरी बु. ११, ना.आंबेगाव, जि.पुणे.

झाडांची नावे व अंतर तपशिल

अ.क्र.	झाडाची नावे	वृक्ष लागवड (संख्या)				प्रति वृक्ष आवश्यक अंतर (मी. X मी.)	प्रति वृक्ष (स्क्वेअर मी.)	वृक्ष लागवड क्षेत्र (हे.आर)
		२०१७-१८ (पूर्वीची)	२०१८-१९	२०१९-२०	आज अखेर एकूण			
१	नारळ	१७०	०	०	१७०	५ X ५	२५	०.४३
२	आंबा	१९	१०५	५५	१७९	१० X १०	१००	१.७९
३	बिगकु	५८	०	०	५८	९ X ९	८१	०.४७
४	आवळा	३	५	०	८	६ X ६	३६	०.०३
५	फणस	७	०	०	७	८ X ८	६४	०.०४
६	कागदी लिंबू	२२	०	०	२२	५ X ५	२५	०.०६
७	सिताफळ	१३९	०	०	१३९	४ X ४	१६	०.२२
८	पेरू	२९	०	०	२९	६ X ६	३६	०.१०
९	जामुळ	२८	०	२५	५३	६ X ६	३६	०.१९
१०	चिच	७	४०	६५०	६९७	८ X ८	६४	४.४६
११	डाळीव	५	०	०	५	४ X ४	१६	०.०१
१२	कौठ	६	०	०	६	६ X ६	३६	०.०२
१३	बोर	११	०	०	११	४ X ४	१६	०.०२
१४	गुलमोहर	२३	५०	०	७३	८ X ८	६४	०.४७
१५	रेनट्री	१६	११०	०	१२६	८ X ८	६४	०.८१
१६	बॉटल पाम	२४१	२२	५०	३१३	५ X ५	२५	०.७८
१७	फिलोशिया पाम	१४	३	०	१७	५ X ५	२५	०.०४
१८	सप्तपर्णी	५२	४८	०	१००	८ X ८	६४	०.६४
१९	पित्त मोहर	१७	५६	०	७३	८ X ८	६४	०.४७
२०	वड	१२०	६	०	१२६	१० X १०	१००	१.२६
२१	अर्जुन	२९	२०	०	४९	८ X ८	६४	०.३१
२२	सिल्वर ओक	६	०	०	६	५ X ५	२५	०.०२
२३	काशिद	३५	३५	१०५	१७५	८ X ८	६४	१.१२
२४	सिसम	१२५	२०	०	१४५	८ X ८	६४	०.९३
२५	पिपळ	१७	०	०	१७	८ X ८	६४	०.११
२६	फायकस	०	५०	०	५०	४ X ४	१६	०.०८
२७	बांबू	१२	०	०	१२	४ X ४	१६	०.०२
२८	करंज	३३	०	९०	१२३	८ X ८	६४	०.७९
२९	बॉटल ब्रश	१९	०	०	१९	४ X ४	१६	०.०३
३०	कडूसिद्ध	२००	०	९५	२९५	६ X ६	३६	१.०६
३१	बदाम	३०	०	०	३०	६ X ६	३६	०.११
३२	सुरु	३१	०	०	३१	६ X ६	३६	०.११
३३	अशोक	९९	०	०	९९	४ X ४	१६	०.१६
३४	स्पॅथोडिया	६	०	०	६	८ X ८	६४	०.०४
३५	कांचन (आपटा)	३९	०	१००	१३९	८ X ८	६४	०.८९
३६	सोनचाफा	५	०	०	५	४ X ४	१६	०.०१
३७	पांढरा चाफा	२१	०	०	२१	४ X ४	१६	०.०३
३८	उंबर	११	०	०	११	८ X ८	६४	०.०७
३९	निलगिरी	३४	०	०	३४	३ X ३	९	०.०३
४०	रामफळ	१४	०	०	१४	५ X ५	२५	०.०४
४१	सुबामळ	२१३	०	०	२१३	४ X ४	१६	०.३४
४२	शेवगा	१४	०	०	१४	३ X ३	९	०.०१
४३	अंजीर	२	०	०	२			
४४	पांगारा	३	०	०	३			
४५	चंदनी	७	०	०	७	४ X ४	१६	०.०१
४६	भेंडी	४	०	०	४	३ X ३	९	०.००
४७	बागूळ	६४	०	०	६४	६ X ६	३६	०.२३
४८	भोकर	१	०	०	१			

अ.क्र.	आंडावाची नामे	पूवा लागवड (संख्या)			आज अखेर एकूण	प्रति पूवा आवश्यक गांवर (मी. X मी.)	प्रति पूवा (सक्वेअर मी.)	पूवा लागवड क्षेत्र (हे.आर)
		२०१७-१८ (पुर्वीची)	२०१८-१९	२०१९-२०				
४९	पपई	८	०	०	८	३ X ३	९	०.०१
५०	बेल	३	०	०	३	६ X ६	३६	०.०१
५१	शेंदरी	१२	०	०	१२	४ X ४	१६	०.०२
५२	देवदार	२७	०	०	२७	८ X ८	६४	०.१७
५३	हिमालया	२	०	०	२			
५४	बकनाम	४	०	०	४			
५५	चेडूफळी	१	०	०	१			
५६	शेंदळा	२	०	०	२			
५७	पिचकारी	३६	०	०	३६	२ X २	४	०.०१
५८	साथर	५	०	०	५			
५९	करवंद	२	०	०	२			
६०	हिरडा	०	०	२५	२५	५ X ५	२५	०.०६
	एकूण	२१६३	५७०	११९५	३९२८			१९.१४
	बूडीस							
६१	जासवंद	२८	०	०	२८	२ X २	४	०.०१
६२	तगर पांडरा	७१	०	०	७१	२ X २	४	०.०३
६३	बोगन बेल	४०२	०	०	४०२	२ X २	४	०.१६
६४	भोरपंखी	१३	०	०	१३	२ X २	४	०.०१
६५	रातराणी	३	०	०	३			
६६	प्रांभता	२	०	०	२			
६७	खिसमस	२	०	०	२			
	एकूण	५२१	०	०	५२१			०.२१
	फुलाझाडे/ शोभेची झाडे							
६८	पुलाव	८८	०	०	८८	२ X १.५	३	०.०३
६९	बिली	४३	०	०	४३	२ X १.५	३	०.०१
७०	क्रोटॉन	५०	०	०	५०	२ X १.५	३	०.०२
७१	गोल्डन डोरॉटा	५३८	०	०	५३८	१.५ X १.५	०	०.००
७२	तेंटीगा व्हेरीगेटेड	८५	०	०	८५	१.५ X १.५	२.२५	०.०२
७३	त्रिपरबडेलिया	१००	०	०	१००			
७४	हिमेलिया	६३	०	०	६३	१.५ X १.५	२.२५	०.०१
७५	गोगरा	१२	०	०	१२	१ X १	१	०.००
७६	आदोवी	३	०	०	३			
७७	कॅलेंडरा	२१२	०	०	२१२	१ X १	१	०.०२
७८	अकॅलीफा	२३०	०	०	२३०	१ X १	१	०.०२
७९	खबल तगर	५८	०	०	५८	१ X १	१	०.०१
८०	अलमंडा	४१	०	०	४१	१ X १	१	०.००
८१	साखर कांडी	३०	०	०	३०	१ X १	१	०.००
८२	रेवीन ग्रास	७५	०	०	७५	१ X १	१	०.०१
८३	मंकी ग्रास	२५	०	०	२५			
८४	केना	५०	०	०	५०			
८५	एन्थालिफा	३५०	०	०	३५०	१ X १	१	०.०३
	एकूण	२०५३	०	०	२०५३			०.१९
	एकूण एकंदर	४७३७	५७०	११९५	६५०२			१९.५३

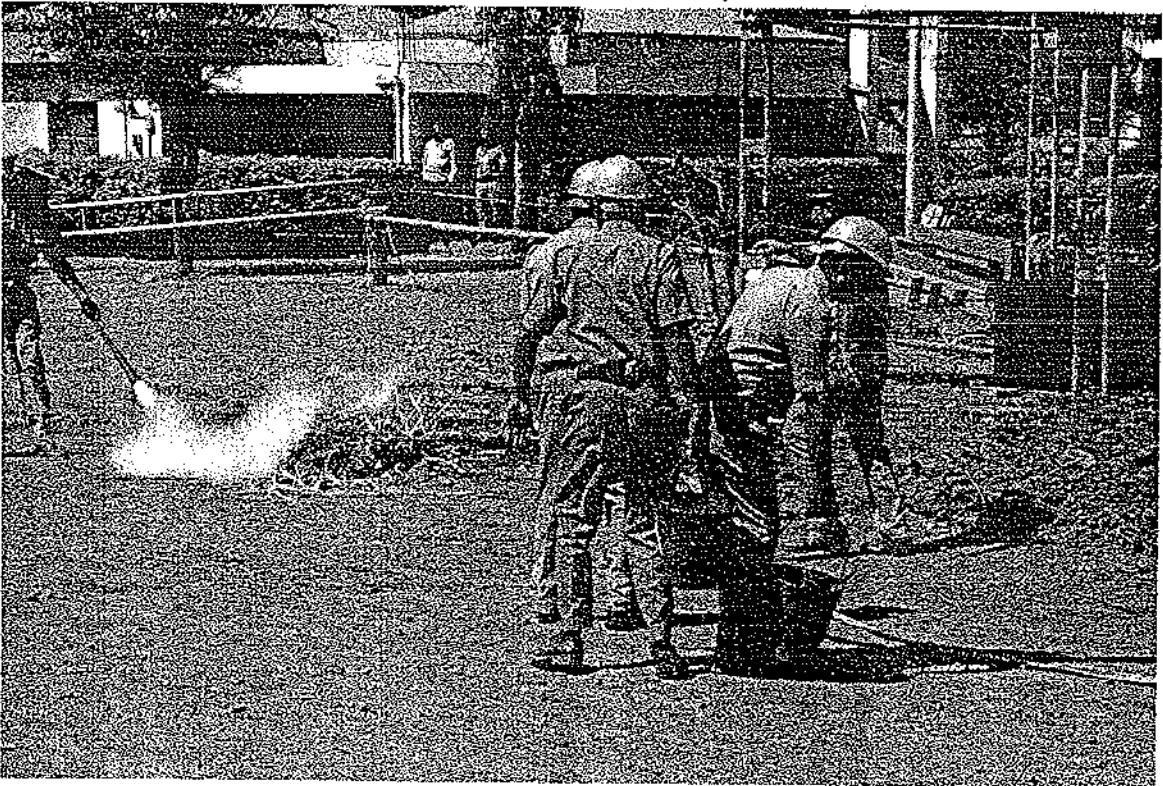
सुडस विकास अधिकारी

मुख्य अधिकारी

कार्यवाही अधिकारी

तालुका कृषि अधिकारी
आंबेगाव (घोडगाव), जि. पुणे







घुबारी दि १२ जुलै २०१२

Public Notice

This is to inform all concern people that, the State Environment Impact Assessment Authority, Government of Maharashtra, Mumbai has accorded Environmental Clearance to M/s. Bhimashankar Sahakar Sakhar Karkhana Limited, at Dattatraynagar, pargaon Via Awasari Bk., Taluka: Ambegaon, District: Pune, for its bagasse based 10 MW cogeneration project. The Environmental Clearance is granted under the provision of EIA notification dated 14th September 2003. The copy of the environmental clearance is available on the web site <http://ec.maharashtra.gov.in/>. This advertisement is published in the public interest, according to the general conditions specified in the Environmental Clearance.

For Bhimashankar Sahakar Sakhar Karkhana Limited
Managing Director

सकाळ दि १५ जुलै २०१२

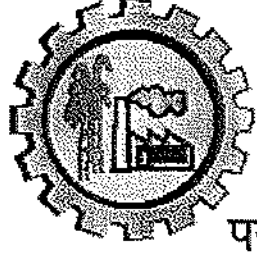
साक्षात्करण

या जाहीर सूचनेद्वारे कळविण्यात येते की, मा. राज्य ईआयए प्राधिकरण, महाराष्ट्र शासन, मुंबई यांच्याकडून मे. भोसाशंकर सहकारी साखर कारखाना लिमिटेड, दत्तत्रयनगर, पारगाव तर्फे अवसरी बु.॥, तालुका अंबेगाव, जिल्हा पुणे यांना नियोजित १९ मे.वॅट क्षमतेच्या बागोसवर आधारित सहजीवनिर्मिती प्रकल्प उभारण्यास पर्यावरणीय मंजूरी मिळाली आहे. सदर मंजूरीचे पत्र हे पर्यावरण विभाग, महाराष्ट्र शासनाच्या <http://ec.maharashtra.gov.in/> या संकेतस्थळी उपलब्ध आहे.

सदर जाहीर सूचना ही पर्यावरणीय मंजूरीतील साक्षात् शर्तीची पूर्तता करण्यासाठी देण्यात येत आहे.

मे. भोसाशंकर सहकारी साखर कारखाना लिमिटेड
कार्यकारी संचालक

≡ MENU



पर्यावरण विभाग

Marathi
English
Marathi

आमच्या विषयी

विभाग

यश

उत्पादने

सामाजिक उपक्रम

गॅलरी

करीयर

अहवाल

निविदा

शेतकरी पोर्टल

ऊस विकास उपक्रम

स्वतंत्र ऊस विकास विंग

VSI आणि CSRC Padegaon पासून सुधारित ऊस बियाणे वाण पुरवठा देखील शेतक-यांना वाजवी दर शेतीसाठी लागणारे साहित्य म्हणजे रासायनिक खते, कीटकनाशके कीटकनाशक पुरवठा.

तसेच माती आणि पाणी परीक्षण प्रयोगशाळा सुसज्ज.

EC 19 TO 29MW Cogen

6000 TCD EC Compliance (1st July 2021 to 31 Dec 2021)

45 KLPD Distillery EC Compliance (1st July 2021 to 31 Dec 2021)

19 MW Co-Gen EC Compliance (1st July 2021 to 31 Dec 2021)

2500 to 6000 MT Sugar EC Comp(01.01.2021 to 30.06.2021)

45 KLPD Dist EC Comp(01.01.2021 to 30.06.2021)

19 MW Co-gen EC Comp (01.01.2021 to 30.06.2021)

Akanksha Lab & On line Monitoring Report Season 2020-21

Environment Statement 2020-21

Environment Statement 2019-20

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

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

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

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

45 KLPD Distillery Environmental Clearance

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

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

On Line Monitoring report 2019-20

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

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

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

6000 M.T. E.C. Compliance (1st July to 31 st Dec.2019) Part B

6000 M.T. E.C. Compliance (1st July To 31st December 2019) Part A

19 MW Co-Gen E.C. MoEF Visit Compliance Report

MoEF Approved (Akanksha Lab) Analysis Report Season 2018-19

6000 M.T.Environmental Clearance

On -Line monitoring Report Season 2018-19

6000 MT EC Complianace Jan.to Jun.2019

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

19 MW Co-generation Environment Clearance

19 MW Co-generation Non complianace Report 2018-19

Environmental Statement (Form-V) 2018-19

जलद दुवे

> मुरयपुत्र

> कपनी इतिहास

> उत्पादने

> करीब

> गैलरी

> संदर्भ

शेती टिपा

> Select healthy sugar cane plants.

> Split the sugar cane stems into four-long pieces

> Dig furrows in a sunny planting spot.

> Moisten the furrows.

> Fertilise the sugar cane with nitrogen.

> Weed the planting bed often



Bhimashankar Sahakari Sakhar Karkhana

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✉ bssklttd@gmail.com





Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

Ann. XII

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2022

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000042278

Submitted Date

05-06-2022

PART A

Company Information

Company Name

Bhimashankar Sahakari Sakhar Karkhana Ltd.

Application UAN number

0000092460

Address

Dattatraynagar, Pargaon Tarfe Awasari Bk.

Plot no

-

Taluka

Ambegaon

Village

Pargaon Tarfe Awasari Bk.

Capital Investment (In lakhs)

28174.0100

Scale

Red

City

Pargaon Tarfe Awasari Bk.

Pincode

412406

Person Name

Mr. Chandrakant G. Dhage

Designation

Managing Director

Telephone Number

9975568130

Fax Number

0213328270

Email

bsskltd@gmail.com

Region

SRO-Pune II

Industry Category

Red

Industry Type

R12 Sugar (excluding Khandsari)

Last Environmental statement submitted online

yes

Consent Number

Format1.0/CC/UAN No.MPCB-
CONSENT-0000092460/CO-2009000301

Consent Issue Date

2020-09-07

Consent Valid Upto

2023-07-31

Establishment Year

2000

Date of last environment statement submitted

Jul 3 2021 12:00:00:000AM

Industry Category Primary (STC Code) & Secondary (STC Code)

Product Information

Product Name

Sugar

Consent Quantity

21600

Actual Quantity

21230

UOM

By-product Information

By Product Name

Bagasse

Consent Quantity

46800

Actual Quantity

48671.51

UOM

Molasses

Consent Quantity

7200

Actual Quantity

7841.81

Pressmud	7200	5914.48	
Co-Generation	19	19	Mwh

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
Cooling	0.00	0.00
Domestic	96.00	62.00
All others	0.00	0.00
Total	1296.00	842.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Trade Effluent	650	570	CMD

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	0.008	CMD

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	841527.690	1201694.00	MT/A

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Bagasse	46800	48671	

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) Quantity	Concentration of Pollutants discharged (Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
pH	7.5	7.0	00	5.5 to 9.0	Nil

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged (Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
SPM	115	105	00	105	Nil

Part-D

HAZARDOUS WASTES

From Process		Hazardous Waste Type		Total During Previous Financial year	Total During Current Financial year	UOM
5.1	Used or spent oil	0.260			0.270	MT/A

2) From Pollution Control Facilities						
Hazardous Waste Type		Total During Previous Financial year	Total During Current Financial year	UOM		
0		00	00	MT/A		

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type		Total During Previous Financial year	Total During Current Financial year	UOM
Boiler Ash		3850	4010	MT/A
ETP Sludge		00	2	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type		Total During Previous Financial year	Total During Current Financial year	UOM
		00	00	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	00	00	MT/A

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	0.270	MT/A	-

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Boiler Ash	4010	MT/A	-
ETP Sludge	2	MT/A	-

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)
Trade Effluent	6.40	510	14	1400	2.70	0.40

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**

1) Online Monitoring system for Effluent & Stack 2) Annual Maintenance of Effluent treatment plant

Environmental Protection Measures

Control Air & Water Pollution

Capital Investment (Lacks)

3.10

[B] Investment Proposed for next Year**Detail of measures for Environmental Protection**

1) Plantation Programme 2) Annual Maintenance Contract for On Line Monitoring System

Environmental Protection Measures

Tree plantation & Control Air & Water Pollution

Capital Investment (Lacks)

1.5

Part-I**Any other particulars for improving the quality of the environment.****Particulars**

Adopt New technology for Air & Water Pollution

Name & Designation

Mr. Chandrakant G. Dhage - Managing Director

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000042278

Submitted On:

05-06-2022