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Tal : Ambegaon, Dist : Pune. 412 406
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BHIMASHANKAR
SAHAKARI SAKHAR KARKHANA LTD.

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

BSSK/Mfg/ 3 2 2 8 /2021-22

Date:- 31/12/2021

To,

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

Sub- Submission of Six Monthly EC Compliance

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 July.2021 to 31st Dec. 2021) for your record reference.

Thanking you.

Yours Faithfully,

(C.G. Dhage)

Managing Director.

Encl- As above

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

Annexure

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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 TPH	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, HP heater and de-aerator heating steam			
ETP details	:	Effluent generation: 50 m ³ /day treated in ETP and reused for gardening and cooling tower make up.			
Pollution control measures	:		Existing	Proposed to be installed	
		Air	ESP / Dust Collector	ESP	
		Water	ETP Consisting of primary treatment, secondary treatment.	ETP with anaerobic followed by aerobic system with sand and carbon filter.	
		Noise	Lubricating systems	Proposed noise friendly machines	
		Solid Waste	Fly ash Sale to Brick manufacturers	Fly ash Sale to Brick manufacturers	

Vasanth

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 :
- Project proponent should take immediate measures to reduce the ambient SPM value due to existing activity as per MPCB directives.
 - No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.
 - No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
 - For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.
 - 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.
 - Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.
 - Proper House keeping programmes shall be implemented.



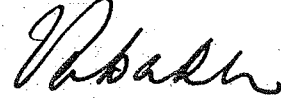
- (viii) In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.
- (ix) A stack of adequate height based on DG set capacity shall be provided for control 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 collection/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 Dehli - 110 022, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010



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

Copy to:

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

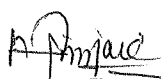
SIX MONTHLY COMPLIANCE REPORT

Part-I

DATA SHEET

No.		
1	Project Type: River Valley/Mining/Industry/Thermal/Nuclear/Others (Specify)	Industry
2	Name of the Project	Bhimashankar Sahakari Sakhar Karkhana Ltd.Dattatrayanagar,Pargaon Tarfe Awasari Bk.,Tal_Ambegaon Dist-Pune Pin- 412406
3	Clearance letter(S)/OM No.and Date	SEAC-2011/CR-755/TC2 Date – 30/06/2012
4	Location a) District (s)	Pune
	b) State (s)	Maharashtra
	c) Location latitude / longitude	Latitude 18 ^o 58' 30.57"N and Longitude 74 ^o 5'31.68"E
5	Address For Correspondence	
	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
6	Salient Features	
	a) of the Project	This Sugar unit situated at Dattatrayanagar.
	b) of the Environmental Management Plans	Environment Management Plan Includes – Green Belt Development (Plantation with mostly indigenous plant species) Measures to avoid sound pollution Water Environment Solid waste management Rain water Harvesting Fire fighting system
7	Break up of the Project Area	
	a) Submergence area : Forest & Non Forest	N.A.
	b) Others	Plot area -586796 m ² Total Built up area- 72844 m ²
8	Break up the Project affected population with the enumeration of those losing Houses/Dwelling units only,Agricultural Land & Landless Laborers /Artisans:	Project land is owned by project proponent. Population is not affected.
	a) SC,ST / Adivasi	N.A.
	b) Others (Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures,if a survey is carried out give details & year of survey)	

9 (a)	Financial Details: Project cost as originally planned and subsequent revised estimates and the year of price reference	Total Project Cost- 4461.250 Lakhs.
(b)	Allocation made for environmental management plans with item wise and year wise breakup	O & M cost/ Year- 300.00 Lakhs
c)	Benefit cost ratio / Internal rate of Return and the year of assessment	8 years
d)	Whether (c) includes the cost of environmental management as shown in the above	Yes
e)	Actual expenditure incurred on the project so far	4461.250 Lakhs
f)	Actual expenditure incurred on the environmental management plans so far	300.00 Lakhs
10	Forest Land Requirement:-	
a)	The Status of approval for diversion of forest land for non-forestry use.	N.A.
b)	The status of clearing felling	N.A.
c)	The Status of compensatory afforestation,if any comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far	N.A.
11	The status of clear felling in non-forest areas (such as submergence area or reservoir,approach roads) if any with quantitative information required .	N.A.
12	Status of construction (Actual & / or Planned)	#VALUE!
a)	Date of commencement (Actual & / or Planned)	June 2012.
b)	Date of completion (Actual & / or Planned)	October 2013.
13	Reasons for the delay if the project is yet to start	N.A.
14	Dates of the site visits-	Nil
a)	The dates on which the project was monitored by the	
b)	Date of site visit for this monitoring report	Nil
15	Details of correspondance with project authorities for obatinig 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. Tijare
 (Process Manager)
 Bhimashankar Sahakari Sakhar Karhana Ltd.
 Dattatrayanagar, Pargaon 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 & OCMS are enclosed - Ann.I)
ii	No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.	No land development or any construction is done & in future also we will not entertain any activity without MPCB permission.
iii	No additional land shall be used/acquired for an activity of the project without obtaining proper permission.	We are agree ,No additional land will be acquired /used for any activity without pollution Board permission.
iv	For controlling fugitive natural dust,regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the shall be ensured.	For dust control we have provided,ESP& wet scubber,for Boiler & Dust cature in sugar house.Further we regularly sprinkle water by spray nozzle fitted to tanker to control dust in the factory permises.(Photograph & reports attached. Ann II.)
v	Regular monitoring of the air quality,including SPM & SO2 levels both in work zone and ambient air shall be carried out in and around the records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.	We are monitoring air & water pollution data regularly by OCMS & online data is submitting to CPCB & MPCB server. (Report & photographs is enclosed-Ann.I & III)
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)
vii	Proper House keeping pro grammes shall be implemented.	We regularly maintain the proper house keeping.
viii	In the event of the failure of any pollution control system adopted by the unit,the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve .	After failure of pollution control device,We immediately stop the Boiler operation & restart after activation of polltuion controlling device.We intimate both CPCB & MPCB time to time by mail in this regard without any delay.


ix	A Stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set.(If applicable)	Appx. 15 mtrs stack height is given for existing 500 KVA D.G.set.
x	A detailed scheme for rain water harvesting shall be prepared and implemented to recharge ground water.	*Factory building & offices roof rain water is collected by down take pipes in campus water body. (Details of Construction of Rain harvesting structure is enclosed.Ann.V)
xi	Arrangement shall be made that effluent and storm water does not get mixed.	We have proper 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 within 5 Km radius ground karkhana is checked,found ok.Reports are attached. (Ann.VI)
xiii	Leq of Noise level shall be maintained as per standards. For people working in the high noise area,requisite personal protective equipment like earplugs etc. shall be provided.	*Noise proof cabnis are provided to operators wherever is possible *The air compressor,process air blower,pneumatic valves are kept in the closed cabis. * Noise level – within limit. (Report Attached-VII)
xiv	The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods,silencers,enclosures ,etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act.1986 Rules,1989.	* Noise controlling measures are as per EMP. * 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. (Photographs & List enclosed.AnnVIII)

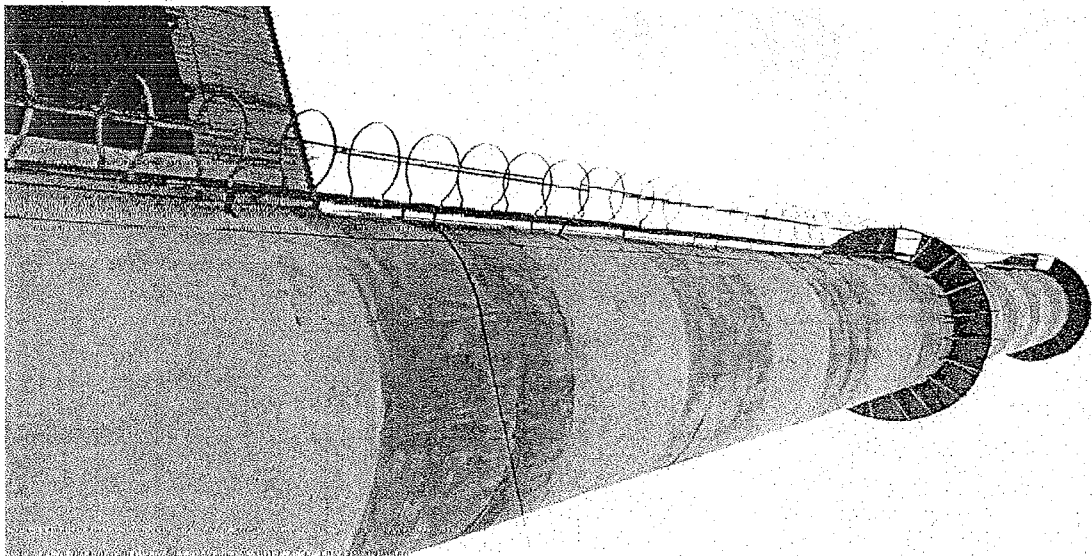
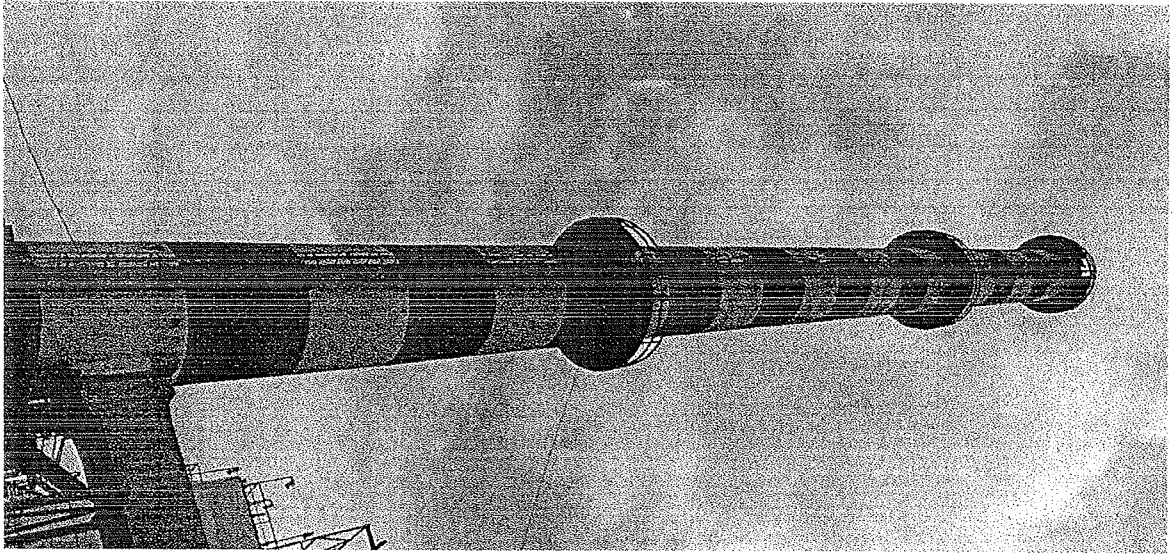
xvi	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall be installed at strategic places for early detection and warning.	*Adequate safety measures are taken
xvii	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.	<p>*We are doing health checkup of all the employees once in every year and records is maintained as per Factory Act.</p> <p>* We are organising pre & post medical check-ups for all employees. Employees are regularly examined and the medical records is maintained of each employee.</p> <p>*All precautionary measures are adopted by the company to reduce the risk of employees for occupational safety and health hazardous.(Photographs Attached- IX)</p>
xviii	The company shall make the arrangement for protection of possible fire hazardous during manufacturing processes in the material handling.	<p>*The system is provided as per guidelines of DISH. *This is regularly inspected by Factory Inspectors during visit.</p> <p>*Hydrant System ,High velocity water spray system,medium velocity water system,Foam system,Portable and mobile fire extinguishers etc. are different types of fire protection /detection system are installed in the plant.</p>
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 .

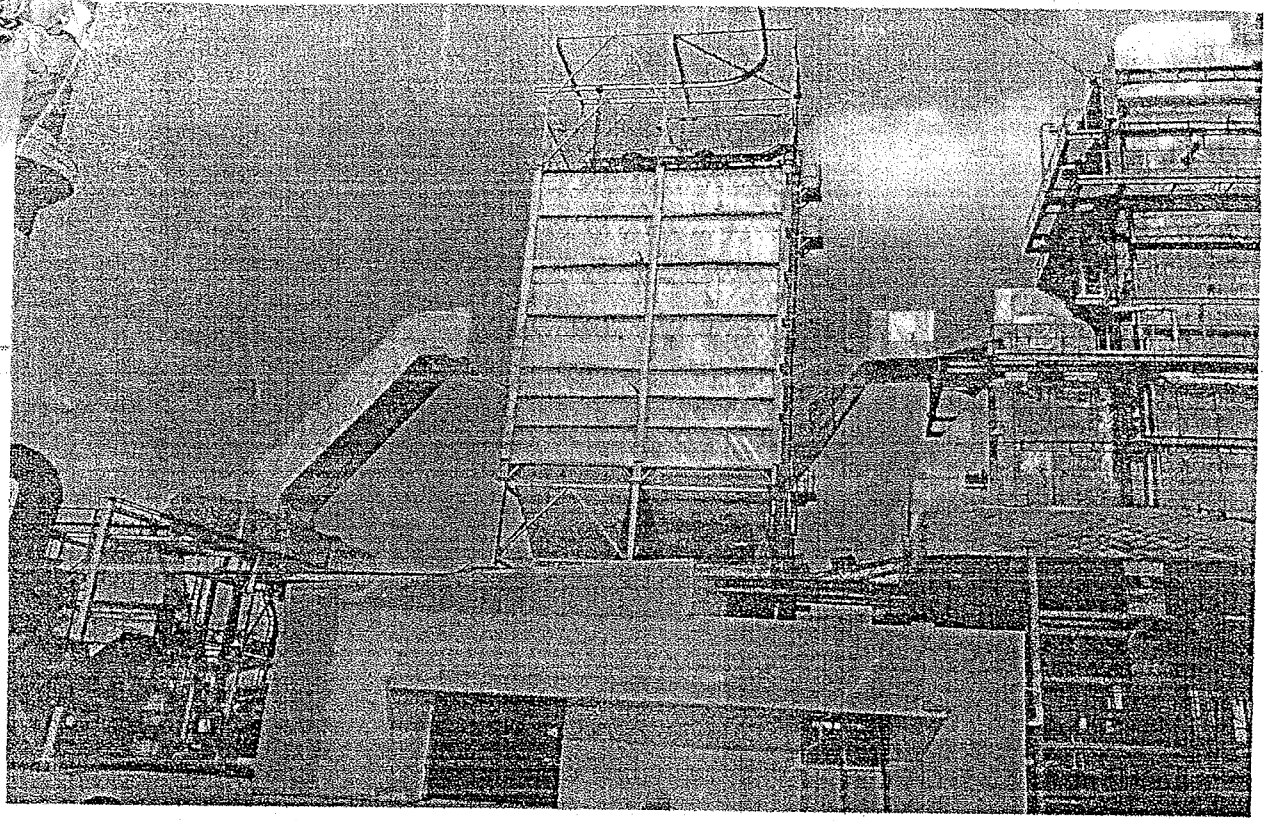
xx	The company shall undertake following Waste Minimization Measures: Metering of quantities of active ingredients to minimize wastes. Reuse of by-products from the process as raw materials or as raw material substitutes in other process. Maximizing Recoveries. Use of automated material transfer system 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 report 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 practice. (Photographs Attached X)
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 experience more than 10 years.</p> <p>*Environment Management cell - Environment Officer-(M.Sc.(Env.Sci.))-1 No. ETP Chemist(B.Sc.)-3 Nos. ETP operators (12 th) - 7 Nos.</p> <p>*For additional work he has an approach to MoEF approved laboratory and NABET approved FAE. for guidance & 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 be 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.300.00 Lakhs 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 account head.</p> <p>* We have made 16 lakhs provision for the operational expenditure of EMP for the current year.</p>

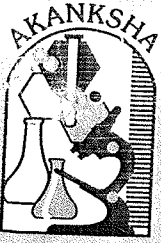
xxvi	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at	Karkhana were published advertise in local newspapers - 1) Pudhari(English)-13 July 2012 2) Sakal (Marathi) - 14 July 2012 (Ann.XI)
xxvii	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department ,on 1 st June & 1st December of each calendar year.	Regularly Submitted.(Website Screenshot Attached Ann.XII)
xxviii	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	*Compliance of EC granted by MoEF is conveyed to local authority, MPCB, villagers, NGO and already displayed on Karkhana website .
xxix	The proponent shall upload the compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, So2, Nox (ambient levels as well as stack emissions) or critical	Regularly Submitted.
xxx	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office CPCB and the SPCB.	*We have uploaded latest compliance report of conditions stipulated in the Environmental clearance along with analytical reports.

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)
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 bindng on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him.	There is no any environmental issues & cases regarding pollution.


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







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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/62-530/21-22
		Report Date	29/11/2021
		Inward No	AL/7-287/01/21-22
		Inward Date	20/11/2021
Sample Location	East -Shri. Yogesh Dhobale House	Sampling Time	12:10 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	44	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	12.31	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	14.78	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	50.23	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	16.91	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.98	≤ 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	01.17	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Samping,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

Verified by
(Analyst)

Authorized Signatory

...End of test report...



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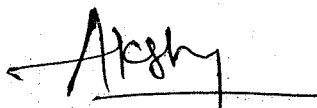
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/62-531/21-22
		Report Date	29/11/2021
		Inward No	AL/7-287/02/21-22
		Inward Date	20/11/2021
Sample Location	West side- Shri. Nivruthi Dhobale House	Sampling Time	12:30 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	42	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	12.34	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	09.67	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	60.19	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	17.78	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	18.32	≤ 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	00.89	≤ 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


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/62-532/21-22
		Report Date	29/11/2021
		Inward No	AL/7-287/03/21-22
		Inward Date	20/11/2021
Sample Location	South Side- Shri. Yogesh Pingale house	Sampliing Time	12:55 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.5	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	42	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	10.18	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	10.47	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	58.31	≤ 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	17.37	≤ 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	00.86	≤ 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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 Authorized Signatory

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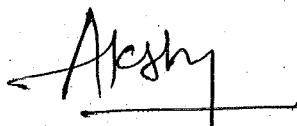
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/62-533/21-22
		Report Date	29/11/2021
		Inward No	AL/7-287/04/21-22
		Inward Date	20/11/2021
Sample Location	North side - Shri Bharat Dhobale House	Sampling Time	01:15 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	41	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	12.36	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	09.89	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	59.21	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	18.65	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	18.24	≤ 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 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


Verified by
(Analyst)


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...End of test report...



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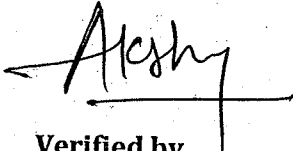
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/62-534/21-22
		Report Date	29/11/2021
		Inward No	AL/7-287/05/21-22
		Inward Date	20/11/2021
Sample Location	Main 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	44	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	16.02	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	69.87	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	24.56	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	18.48	≤ 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	01.63	≤ 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-

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- ❖ N.S. -Not Specified


Verified by
(Analyst)


Authorized Signatory

...End of test report...

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/10/2021 00:00
To Date 31/10/2021 23:59
Interval Daily
Function Average

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

25/10/2021 00:00	60 < D
26/10/2021 00:00	60
27/10/2021 00:00	60 <
28/10/2021 00:00	60 <
29/10/2021 00:00	59.94
30/10/2021 00:00	58.82 < D
31/10/2021 00:00	60 <
Average	59.8
Geom.Mean	59.8
Maximum	60
Median	60
Minimum	58.8
Mode	60
Std.Deviation	0.4
Total Active Duration	

From Date 01/10/2021 00:00
To Date 31/10/2021 23:59
Interval Daily
Function Average

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

25/10/2021 00:00	72 <
26/10/2021 00:00	72 <
27/10/2021 00:00	72
28/10/2021 00:00	72 <
29/10/2021 00:00	72 <
30/10/2021 00:00	72 < D
31/10/2021 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 01/11/2021 00:00
 To Date 30/11/2021 23:59
 Interval Daily
 Function Average

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

01/11/2021 00:00	59.96
02/11/2021 00:00	60 < D
03/11/2021 00:00	60 <
04/11/2021 00:00	60 <
05/11/2021 00:00	60 <
06/11/2021 00:00	60 <
07/11/2021 00:00	60 <
08/11/2021 00:00	55.15
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26/11/2021 00:00	60 <
27/11/2021 00:00	60 <
28/11/2021 00:00	60 <
29/11/2021 00:00	60 <
30/11/2021 00:00	60 <

Average 59.7
 Geom.Mean 59.7
 Maximum 60
 Median 60
 Minimum 55.1
 Mode 60
 Std.Deviation 1.1
 Total Active Duration

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/11/2021 00:00
 To Date 30/11/2021 23:59
 Interval Daily
 Function Average

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

02/11/2021 00:00	72 <
03/11/2021 00:00	72 <
04/11/2021 00:00	72 <
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27/11/2021 00:00	72
28/11/2021 00:00	72
29/11/2021 00:00	72
30/11/2021 00:00	72 <

Average 71.3
 Geom.Mean 71.3
 Maximum 72
 Median 72
 Minimum 60.5
 Mode 72
 Std.Deviation 2.4
 Total Active Duration

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/12/2021 00:00
 To Date 31/12/2021 23:59
 Interval Daily
 Function Average

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

01/12/2021 00:00	60
02/12/2021 00:00	59.96
03/12/2021 00:00	60
04/12/2021 00:00	60
05/12/2021 00:00	60 <
06/12/2021 00:00	60 <
07/12/2021 00:00	60
08/12/2021 00:00	60
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18/12/2021 00:00	60
19/12/2021 00:00	60
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22/12/2021 00:00	60
23/12/2021 00:00	60
24/12/2021 00:00	60
25/12/2021 00:00	60
Average	60
Geom.Mean	60
Maximum	60
Median	60
Minimum	59.9
Mode	60
Std.Deviation	0
Total Active Duration	

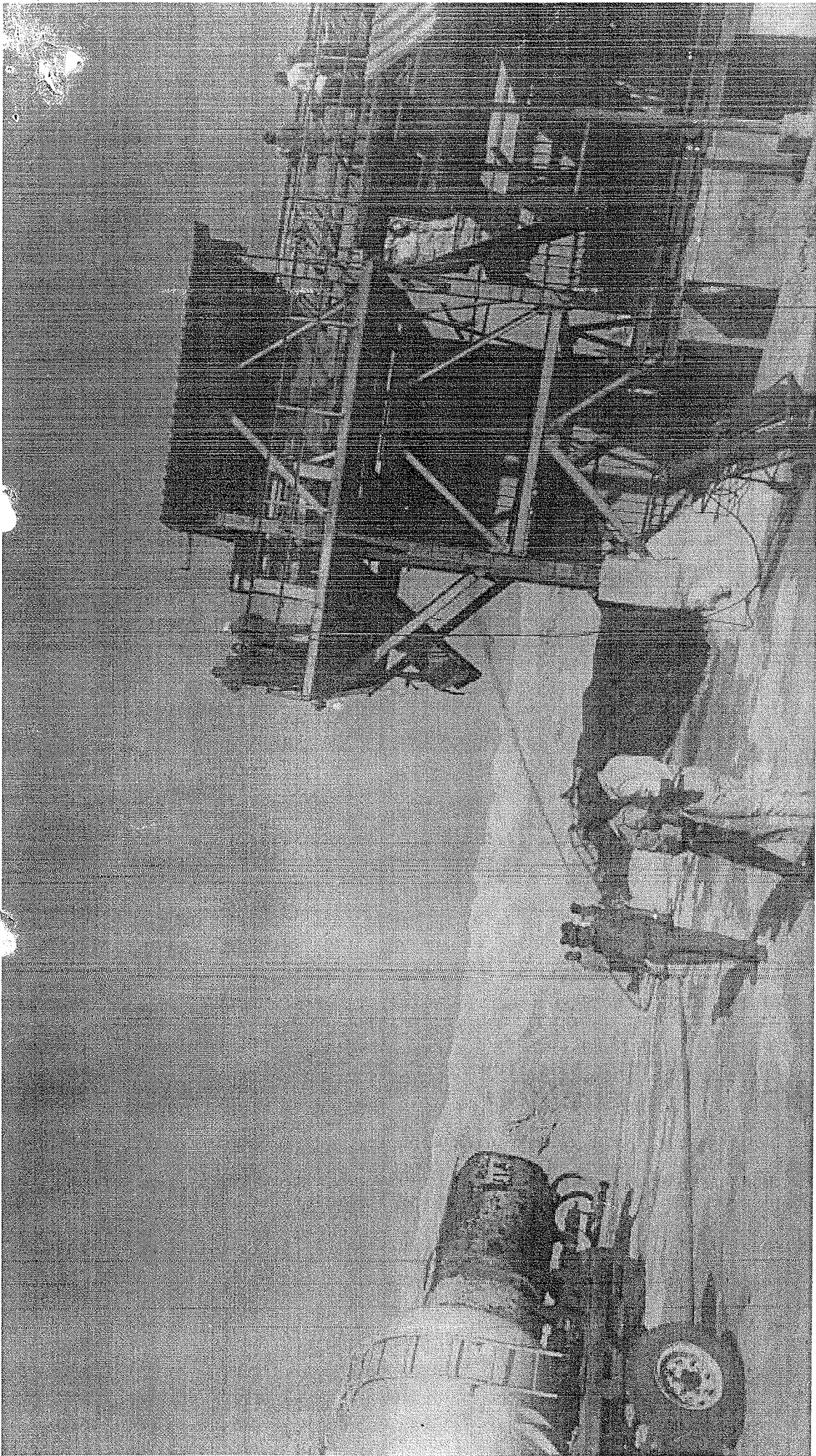
EnviroConnect Forbes Marshall Multi Station Report

From Date 01/12/2021 00:00
 To Date 31/12/2021 23:59
 Interval Daily
 Function Average

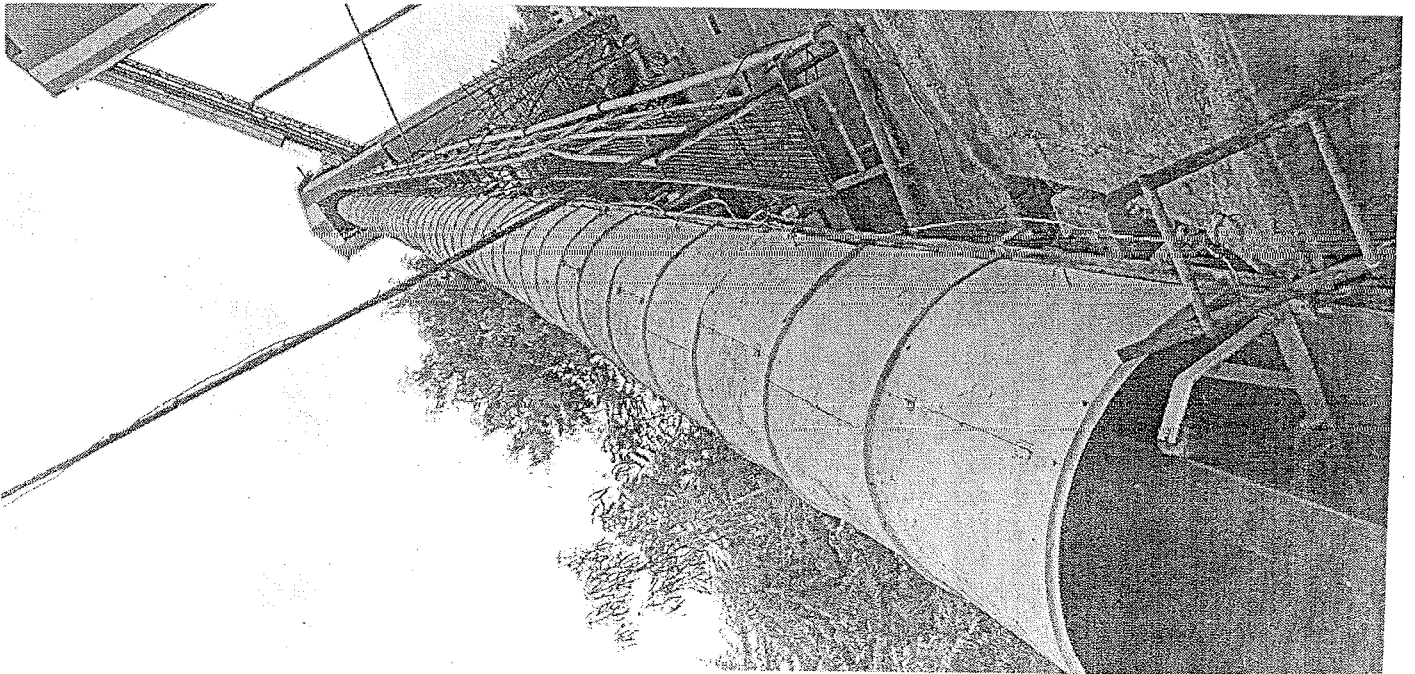
Plant BSSK
 Analyzer STACK2
 Parameter PM
 Unit mg/Nm3
 Limit 0.00 - 150.00

04/12/2021 00:00	72 <
05/12/2021 00:00	72 <
06/12/2021 00:00	72 <
07/12/2021 00:00	72
08/12/2021 00:00	72
09/12/2021 00:00	72
10/12/2021 00:00	72
11/12/2021 00:00	72 <
12/12/2021 00:00	72 <
13/12/2021 00:00	72
14/12/2021 00:00	72
15/12/2021 00:00	71.97
16/12/2021 00:00	72
17/12/2021 00:00	72
18/12/2021 00:00	72
19/12/2021 00:00	72
20/12/2021 00:00	72
21/12/2021 00:00	72
22/12/2021 00:00	72 <
23/12/2021 00:00	72 <
24/12/2021 00:00	72
25/12/2021 00:00	72 <

Average 72
 Geom.Mean 72
 Maximum 72
 Median 72
 Minimum 72
 Mode 72
 Std.Deviation 0
 Total Active Duration









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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/62-535/21-22
		Report Date	29/11/2021
		Inward No	AL/7-287/06/21-22
		Inward Date	20/11/2021
Sample Location	Eagasse 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	82.13	IS:5182(Part-23):2006
2.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	24.45	IS:5182(Part-23):2006

Aashy
 Verified by
 (Analyst)

Caipul
 Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

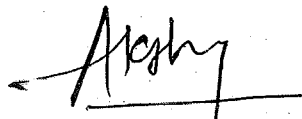
- Recognized by Ministry of Environment Forest and Climate Change (MoEFCC), New Delhi
- ISO 9001 : 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization


SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/62-536/21-22
		Report Date	29/11/2021
		Inward No	AL/7-287/07/21-22
		Inward Date	20/11/2021
Sample Location	Old Boiler (37 T/hr)	Sampling Time	03:00 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	60.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	04.00	N.S.	--
6.	Stack area	m ²	12.56	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	° C	135.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	04.41	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	08.05	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm ³ /hr.	265997.06	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm ³	118.12	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	93.64	≤2880	IS 11255 (PART 2):1985
13.	Oxide of Nitrogen	mg/Nm ³	119.23	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2581.17	N.S.	IS 13270 :1992

REMARK, OPINION & INTERPRITATION

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


Verified by
(Analyst)


Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

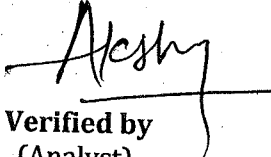
- Recognized by Ministry of Environment Forest and Climate Change (MoEFCC), New Delhi
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- ISO 45001 : 2018 Certified Organization


SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/62-537/21-22
		Report Date	29/11/2021
		Inward No	AL/7-287/08/21-22
		Inward Date	20/11/2021
Sample Location	New Boiler (80T/hr)	Sampling Time	03:30 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	72.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	03.54	N.S.	--
6.	Stack area	m ²	09.83	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	°C	145.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	03.75	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.51	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm ³ /hr.	189802.38	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm ³	135.12	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	1498.24	≤ 3120	IS 11255 (PART 2): 1985
13.	Oxide of Nitrogen	mg/Nm ³	278.18	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2634.21	N.S.	IS 13270 :1992

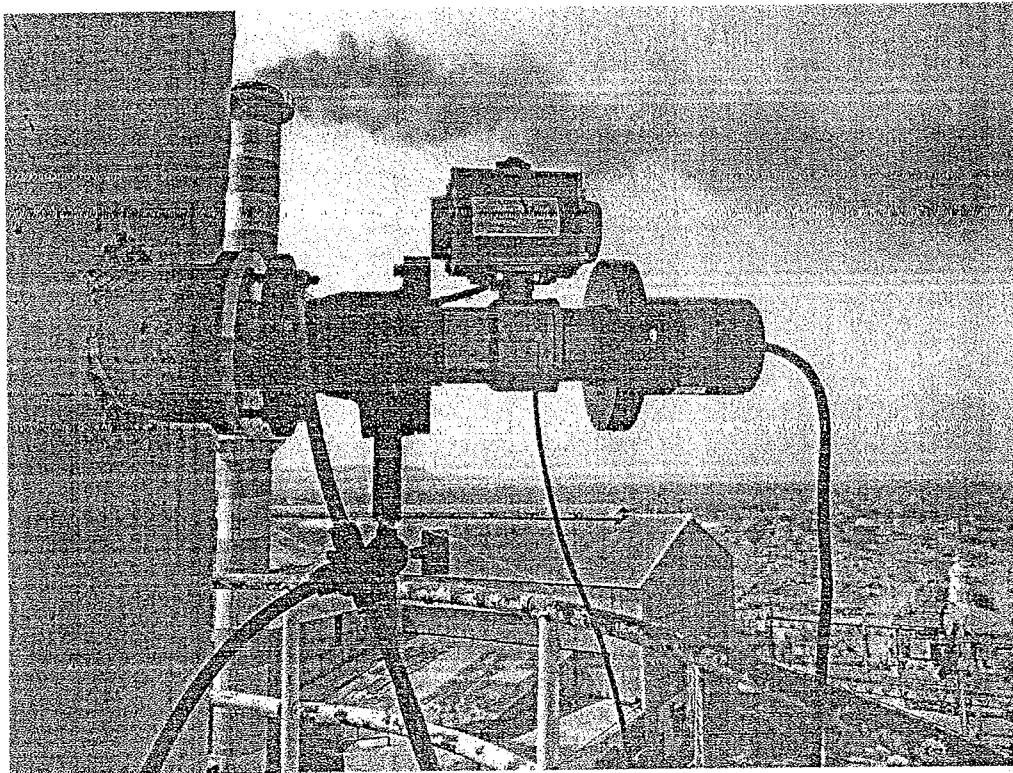
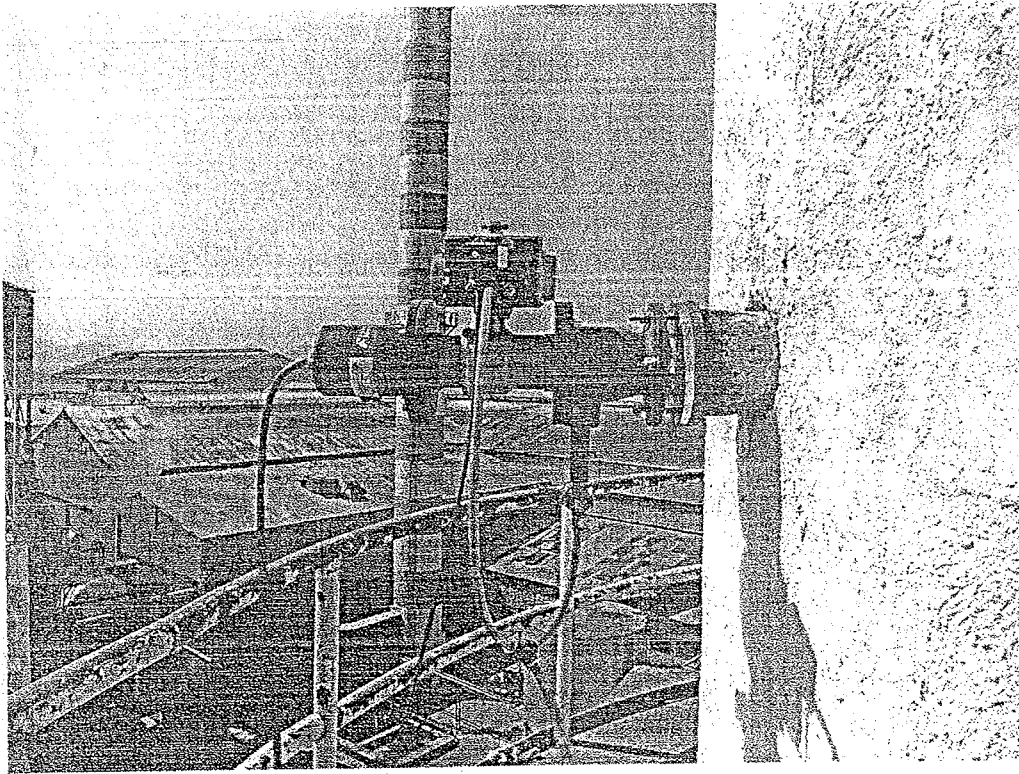
REMARK, OPINION & INTERPRITATION-

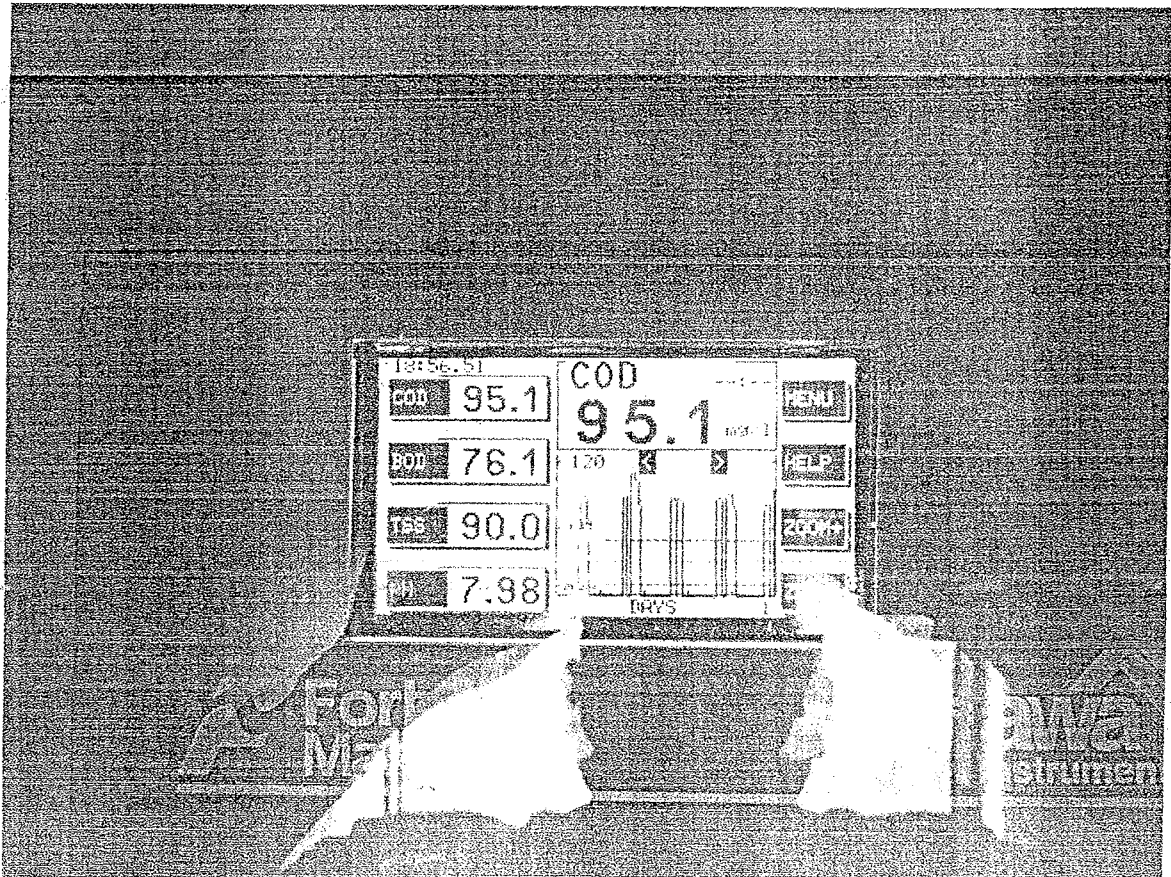
- ❖ All above results are within limits as per MPCB Consent.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. - Not Specified


Verified by
(Analyst)


Authorized Signatory

...End of test report...





EnviroConnect Forbes Marshall Multi Station Report

From Date 01/10/2021 00:00
 To Date 31/10/2021 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
25/10/2021 00:00	7.35 < LH	137.65 < B	88.18 < B	70.51
26/10/2021 00:00	7.05	70.78	1.08	37.27
27/10/2021 00:00	7.04	70.76	1.07	37.28
28/10/2021 00:00	7.04	70.7	1.03	37.27
29/10/2021 00:00	7.04	70.66	1	37.25
30/10/2021 00:00	7.04 < D	70.7 < D	0.99 < D	37.25
31/10/2021 00:00	7.04 <	70.66 <	0.99 <	37.25
Average	7.1	80.3	13.5	42
Geom.Mean	7.1	77.8	1.9	40.8
Maximum	7.4	137.6	88.2	70.5
Median	7	70.7	1	37.3
Minimum	7	70.7	1	37.2
Mode	7	70.7	1	37.2
Std.Deviation	0.1	25.3	32.9	12.6
Total Active Duration				

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/11/2021 00:00
 To Date 30/11/2021 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
02/11/2021 00:00	7.02 < LD	70.62 < D	0.99 < D	37.25
03/11/2021 00:00	7.04	70.63	0.99	37.24
04/11/2021 00:00	7.04 <	70.64 <	0.98 <	37.24
05/11/2021 00:00	7.04 <	70.63 <	0.98 <	37.23
06/11/2021 00:00	7.04 <	70.65 <	0.98 <	37.25
08/11/2021 00:00	5.95 < L	435.48 < B	33.48 <	19.45
20/11/2021 00:00	6.3 <	73.38 <	0 <	38.53
21/11/2021 00:00	6.39 <	68.7 <	23.74 <	36.29
22/11/2021 00:00	6.16 < L	67.68 <	29.82 <	35.82
23/11/2021 00:00	6.08 <	68.98 <	46.66 <	36.53
24/11/2021 00:00	5.86 < L	69.01 <	39.33 <	36.56
25/11/2021 00:00	5.01 < L	68.78 <	92.26 < HB	36.42
26/11/2021 00:00	6.05 < LH	62.27 <	100.36 < BH	33.2
27/11/2021 00:00	6.33	60.64	80.1	32.4
28/11/2021 00:00	6.33	60.6	80.09	32.4
29/11/2021 00:00	6.33	60.58	80.08	32.4
30/11/2021 00:00	6.33	60.59	80.07	32.39
Average	6.4	88.8	40.6	34.6
Geom.Mean	6.3	74.8	15.8	34.3
Maximum	7	435.5	100.4	38.5
Median	6.3	69	33.5	36.4
Minimum	5	60.6	0	19.4
Mode	7	67.7	1	32.4
Std.Deviation	0.5	89.4	37.5	4.4
Total Active Duration				

EnviroConnect Forbes Marshall Multi Station Report

From Date 01/12/2021 00:00
 To Date 31/12/2021 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
04/12/2021 00:00	6.33 <	60.61 <	80.11 <	32.41 <
05/12/2021 00:00	6.33 <	60.67 <	80.14 <	32.43 <
06/12/2021 00:00	6.33 <	60.67 <	80.12 <	32.43 <
07/12/2021 00:00	6.33	60.64	80.13	32.42
08/12/2021 00:00	6.33	60.63	80.11	32.41
09/12/2021 00:00	6.33 <	60.63 <	80.11 <	32.41 <
10/12/2021 00:00	6.33	60.63	80.1	32.41
11/12/2021 00:00	6.33	60.61	80.08	32.41
12/12/2021 00:00	6.33	60.61	80.07	32.41
13/12/2021 00:00	6.33 <	60.6 <	80.07 <	32.4 <
14/12/2021 00:00	6.33 <	60.6 <	80.07 <	32.4 <
15/12/2021 00:00	6.33	60.61	80.07	32.4
16/12/2021 00:00	6.33	60.61	80.07	32.4
17/12/2021 00:00	6.33	60.6	80.07	32.4
18/12/2021 00:00	6.33	60.59	80.07	32.4
19/12/2021 00:00	6.33	60.59	80.06	32.4
20/12/2021 00:00	6.33	60.57	80.06	32.4
21/12/2021 00:00	6.33	60.57	80.06	32.39
22/12/2021 00:00	6.32	60.58	80.05	32.39
23/12/2021 00:00	6.33	60.58	80.05	32.39
24/12/2021 00:00	6.33	60.57	80.05	32.39
25/12/2021 00:00	6.32 <	60.55 <	80.04 <	32.39 <
Average	6.3	60.6	80.1	32.4
Geom.Mean	6.3	60.6	80.1	32.4
Maximum	6.3	60.7	80.1	32.4
Median	6.3	60.6	80.1	32.4
Minimum	6.3	60.6	80.1	32.4
Mode	6.3	60.6	80	32.4
Std.Deviation	0	0	0	0
Total Active Duration				



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- 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/43-728/2021-22
		Report Date	26/11/2021
		Inward No	11-324
		Inward Date	20/11/2021
Sample Testing Location	Laboratory	Analysis Start date	22/11/2021
Sample Detail	ETP Outlet		
Sample Collected By	Party	Analysis End date	25/11/2021
Sample Volume	3000 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Limits as Per MPCB Consent	Method
1.	pH@25 ^o C	-----	8.22	5.5-9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27 ^o C For 3 Days	mg/lit.	11.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit.	33.0	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit.	2.00	≤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.	687	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit.	24.6	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO ₄ ²⁻	mg/lit.	4.56	≤1000	APHA-23 rd Edition 2017 4500-E-SO ₄ ²⁻

REMARK-

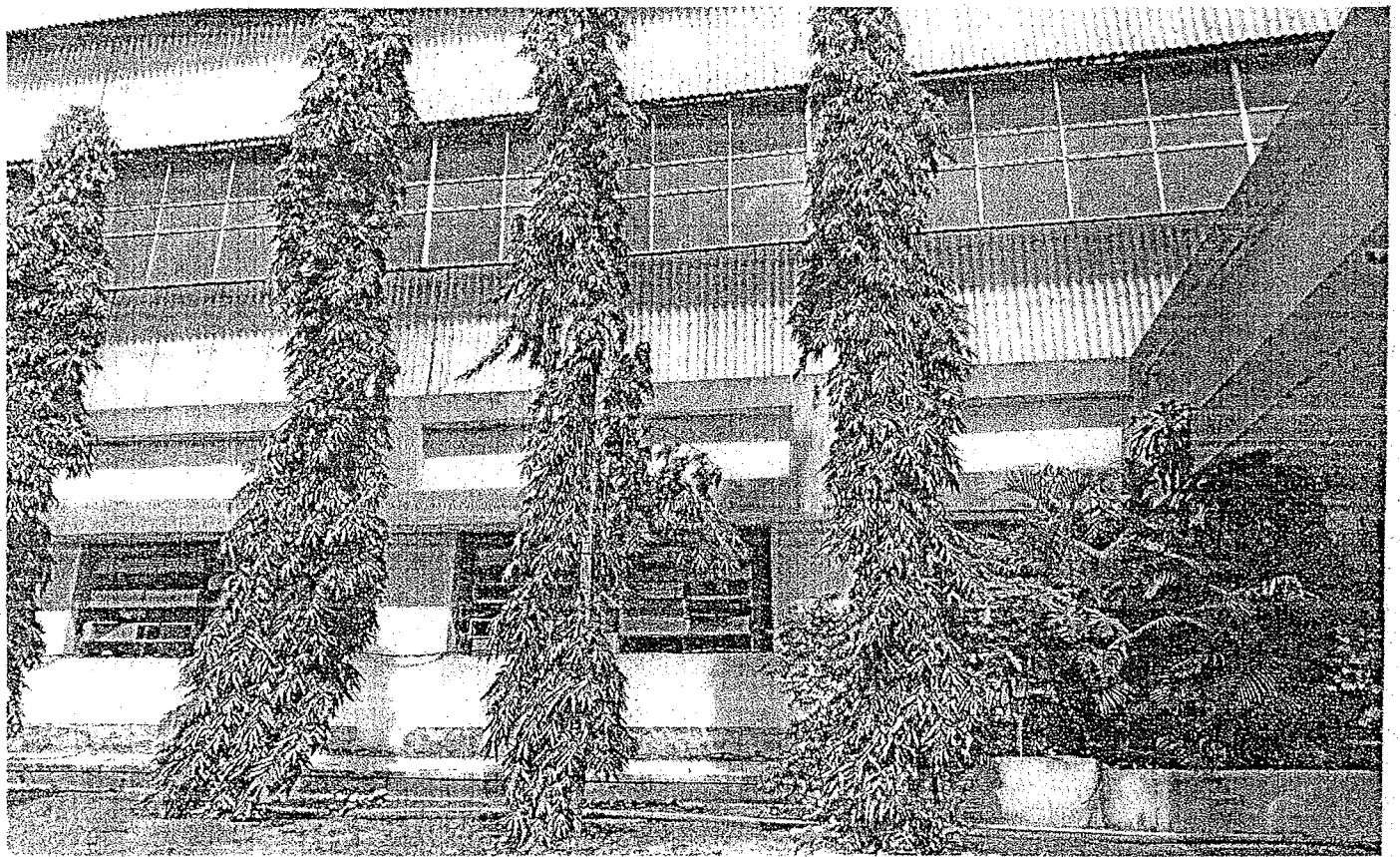
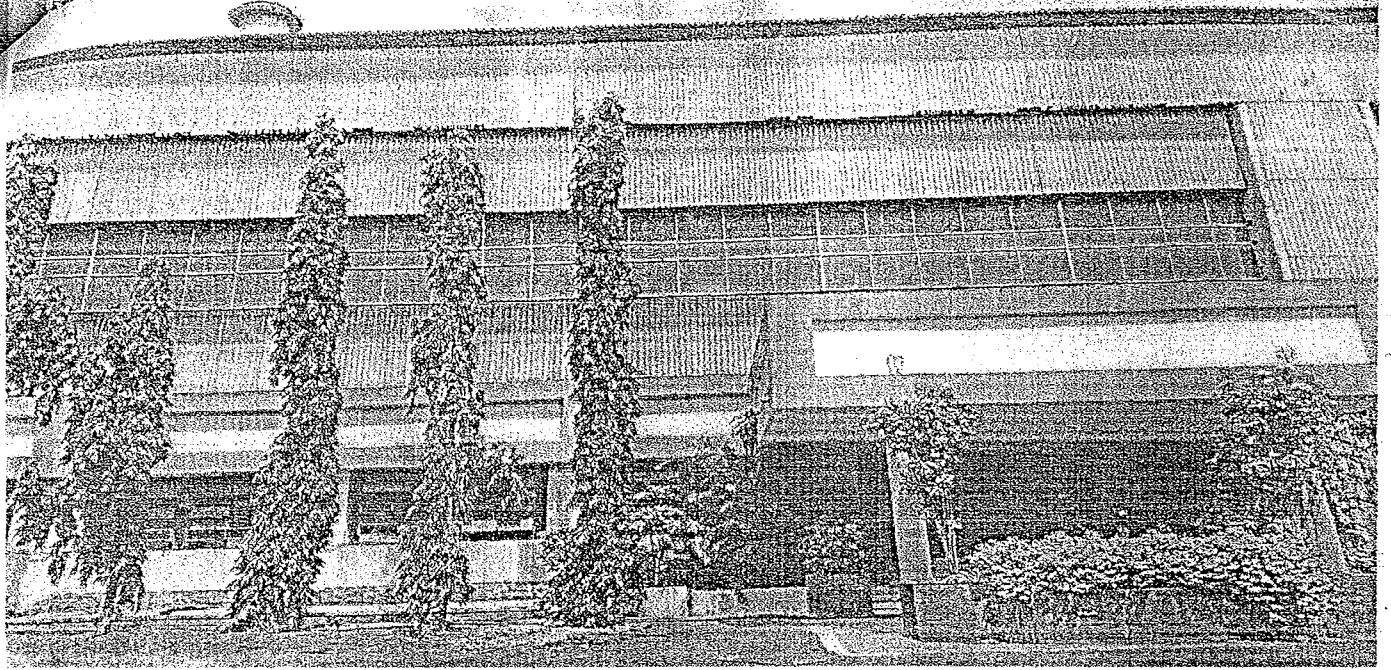
- ❖ The above analysis water sample is not within the prescribed limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results are related to sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ The contents of this test report shall 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...



Ann: 28

BKSS LTD

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 assess 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: -

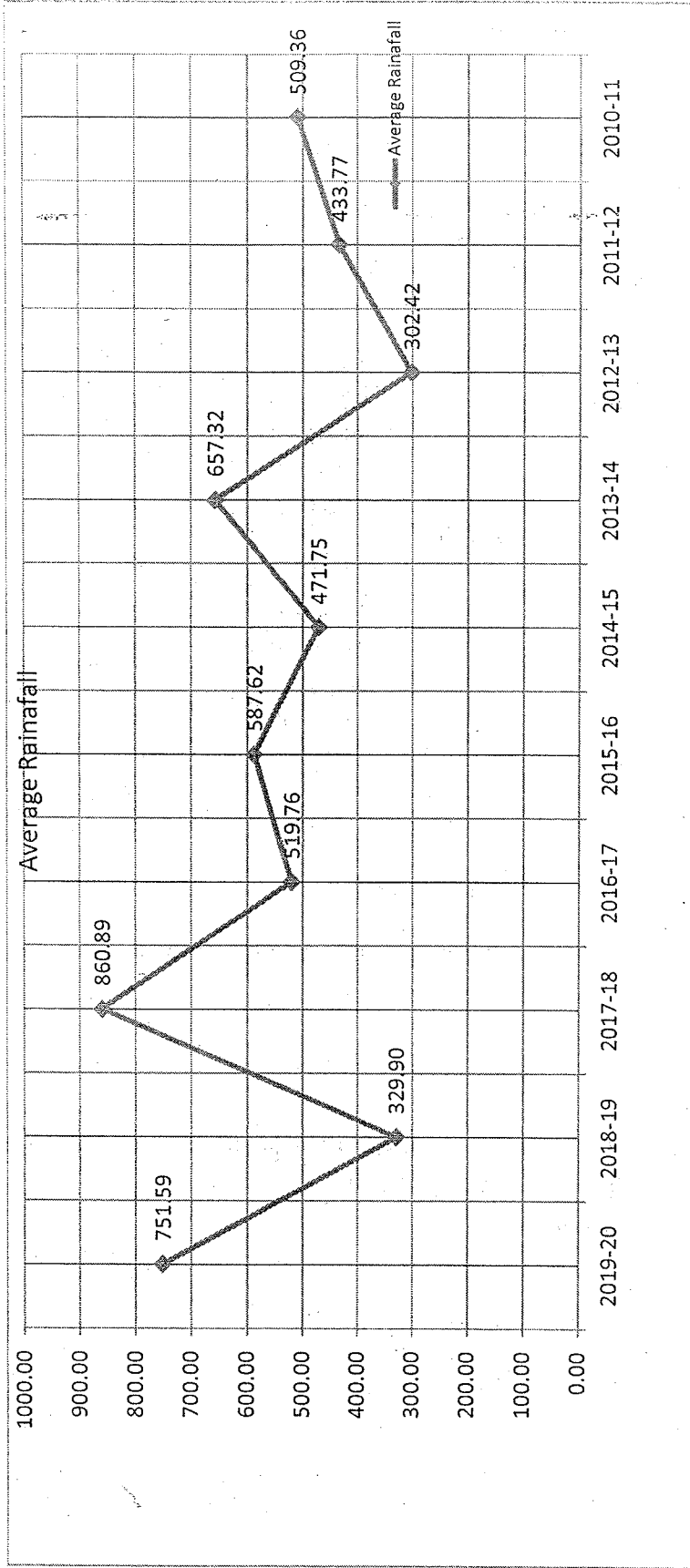
SR.NO	AREA CALCULATIONS	Area in Sq mt
1	Total area of plot	5,80,000.00
2	A) Area of sugar factory unit	5341.78
	B) Area under Distillery (Proposed)	14112.00
	C) Area under industrial activity	60503.00
	(A+B) Total area of industry	79956.78
3	Area of residential building	7218.94
4	Parking Area	3064.80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



(25)

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
---	-------	------------

B) After construction: -

1) Total Area under industrial:

Area of industry x Average annual rain fall x Runoff coefficient

$$= 79956.78 \times 0.86 \times 0.90$$

$$= \mathbf{61886.54 \text{ M}^3}$$

2) Area under residential building:

Area of building x Average annual rain fall x Runoff coefficient

$$= 7218.94 \times 0.86 \times 0.90$$

$$= \mathbf{5587.45 \text{ M}^3}$$

3) Area under parking & other than residential building:

Area of building x Average annual rain fall x Runoff coefficient

$$= 8635.93 \times 0.86 \times 0.75$$

$$= \mathbf{5570.17 \text{ M}^3}$$

4) Area under labor camp:

Area of building x Average annual rain fall x Runoff coefficient

$$= 162,566.63 \times 0.86 \times 0.75$$

$$= \mathbf{104,855.47 \text{ M}^3}$$

5) Area of open land:

Area of building x Average annual rain fall x Runoff coefficient

$$= 78205 \times 0.86 \times 0.60$$

$$= \mathbf{40353.78 \text{ M}^3}$$

6) Area of green belt:-

Area of building x Average annual rain fall x Runoff coefficient

$$= 196000 \times 0.86 \times 0.15$$

$$= \mathbf{25284.00 \text{ M}^3}$$

7) Area of under road: -

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

8) Area of under switch yard: -

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

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.

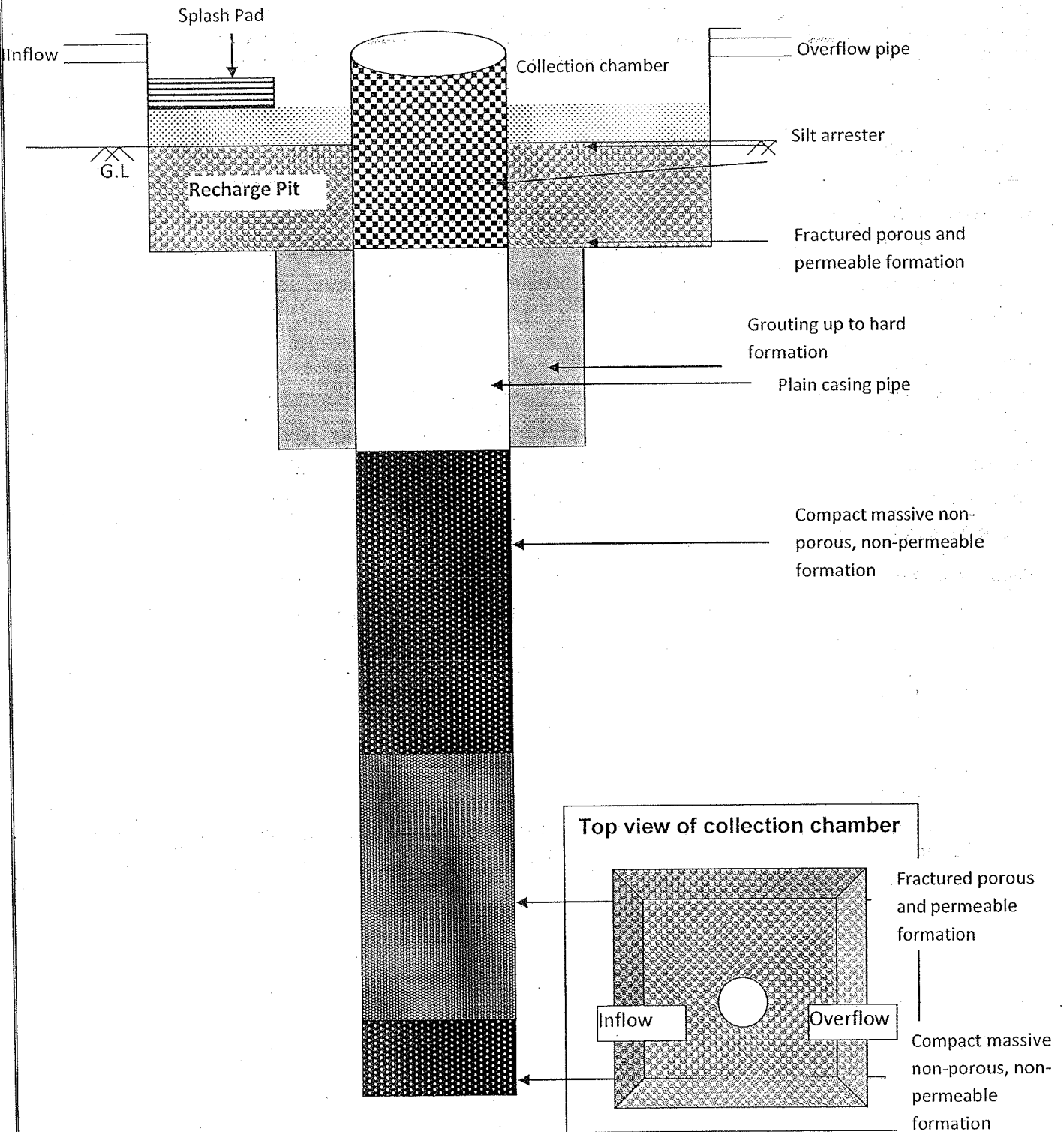
Highly favourable zones, which can help for recharge, are identified. Based on subsurface lithology, drainage pattern, possibility of roof water and surface runoff generation, suitable recharge structures are designed. Utmost care shall have to take in creating artificial recharge structures. Study has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

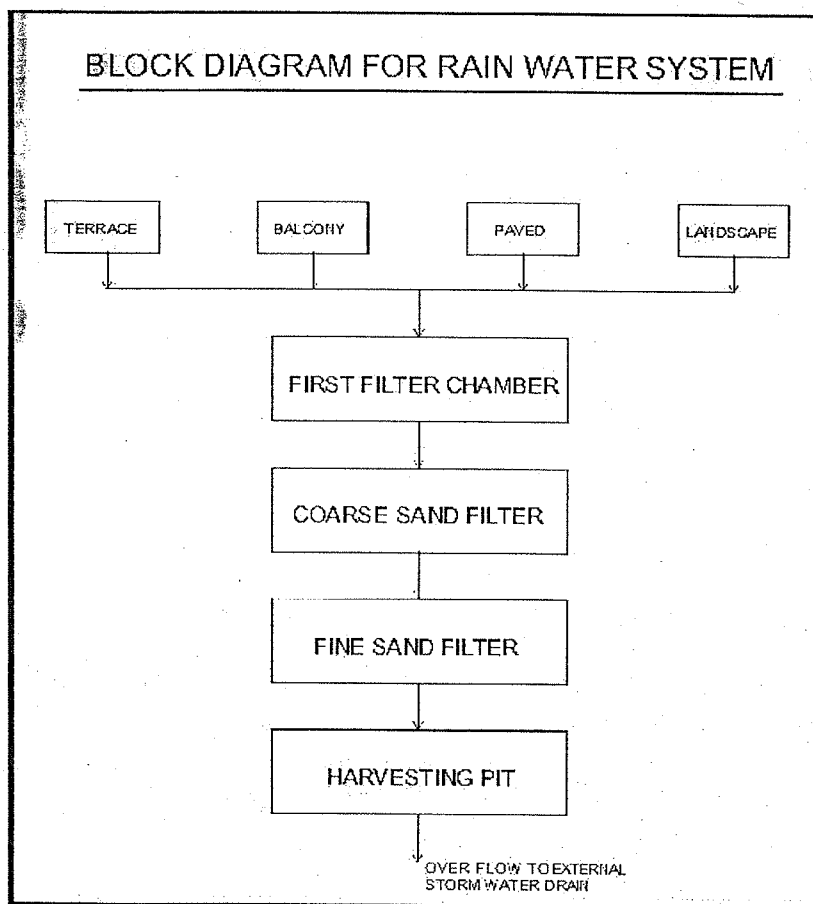
Schematic of Drawing of Recharge Pit with Bore Well:-

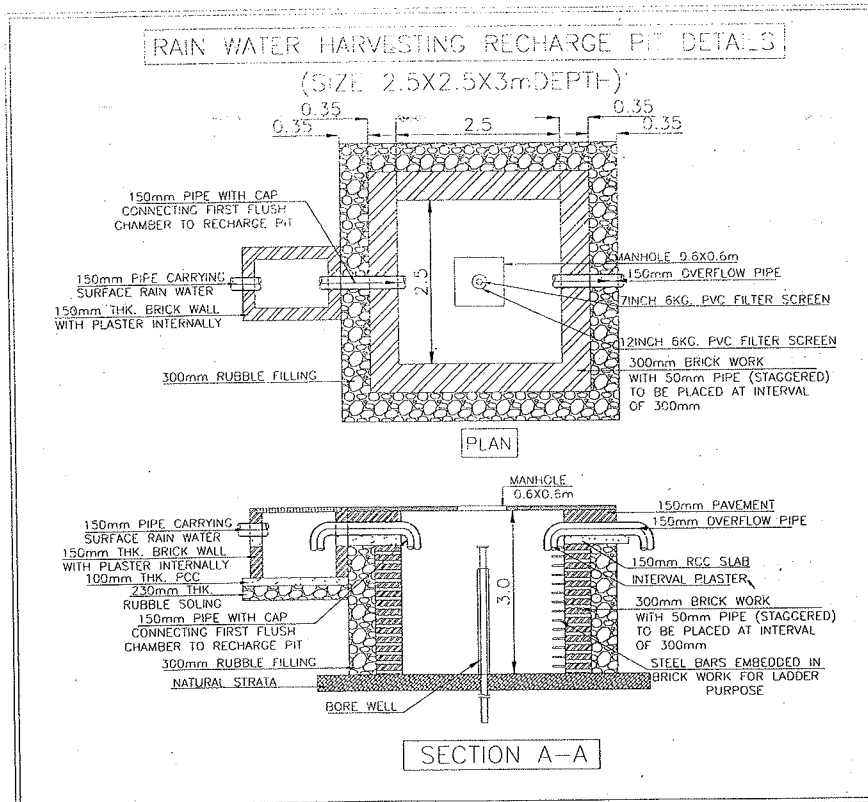


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Recommended rain water harvesting and recharging strategic.

- 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.).

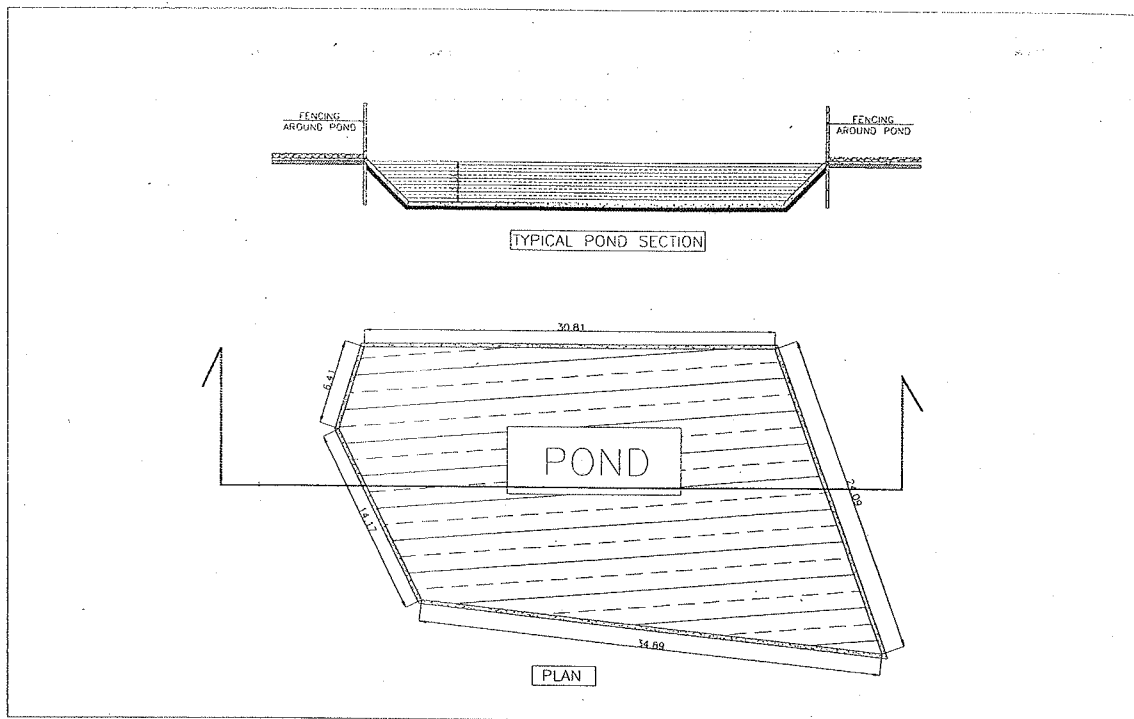
According to above we have done around 10 lac liter of water recharge into ground with providing 10 number of recharge pits and bore wells.

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.

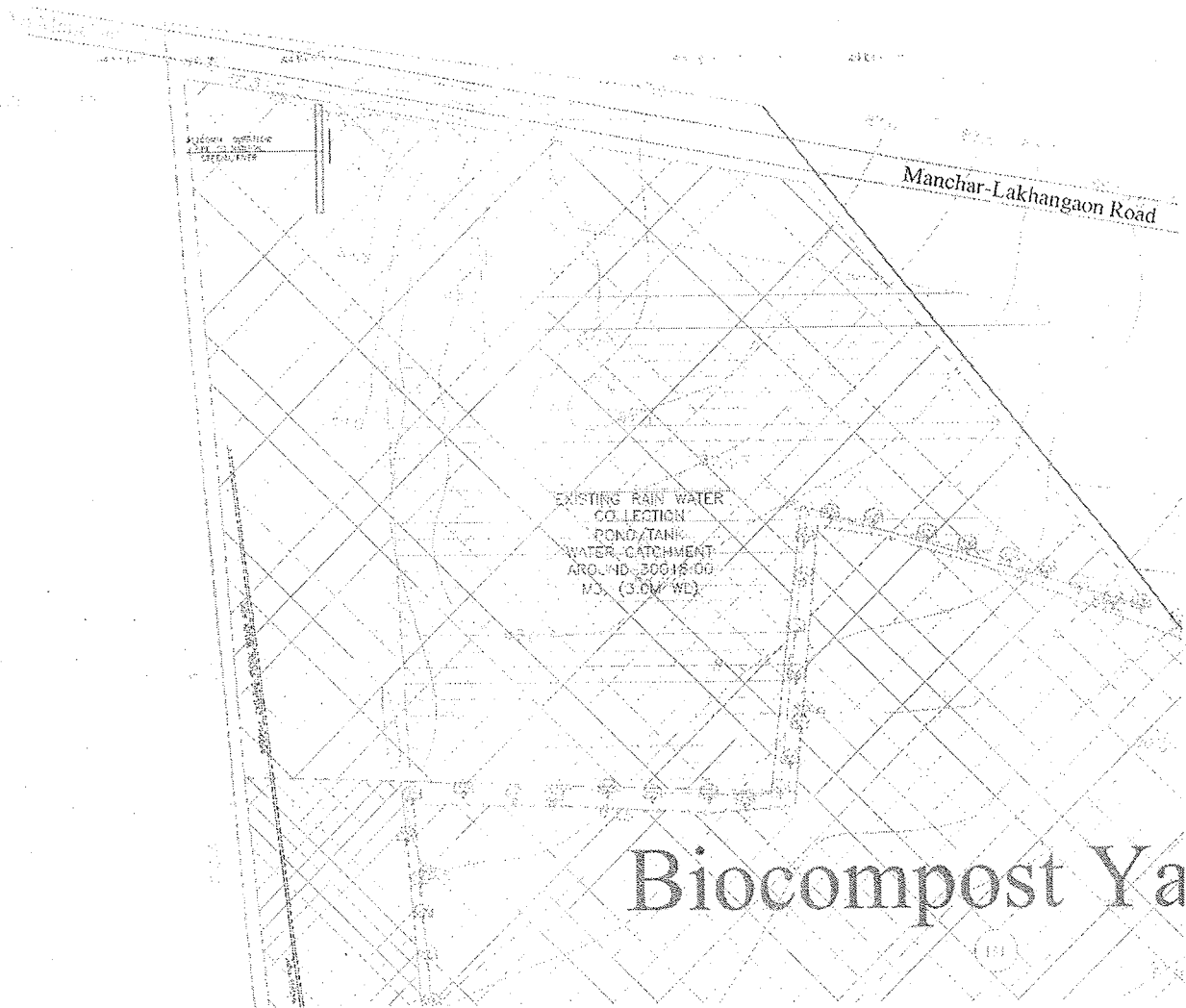
Also, we are using existing natural pond for water collection and storage of rain water, capacity around 30018.00 M³ with water depth of 3.0M.

Conclusions: -

1) Proposed Storage Tank

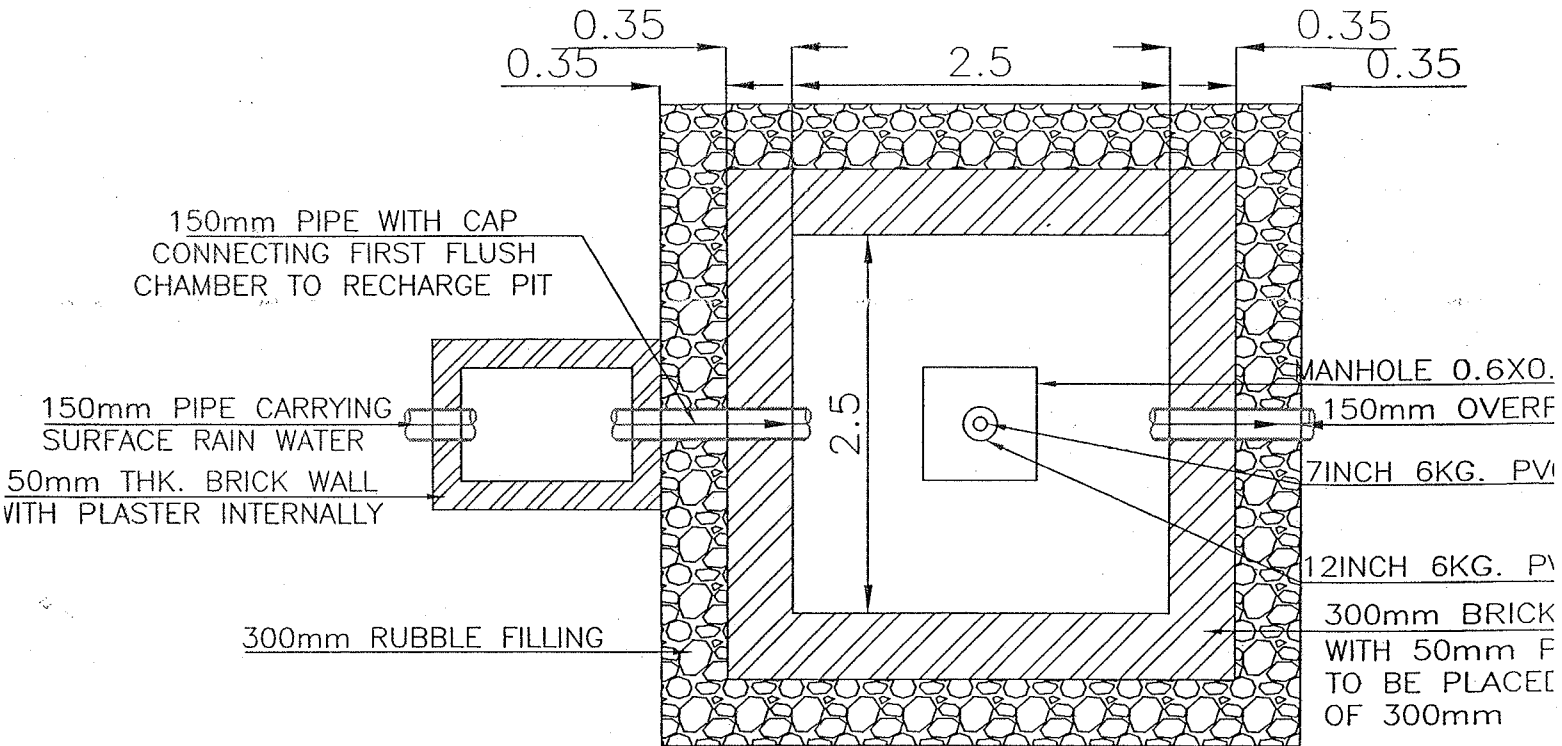


2) Existing Rain water storage Tank/ Pond

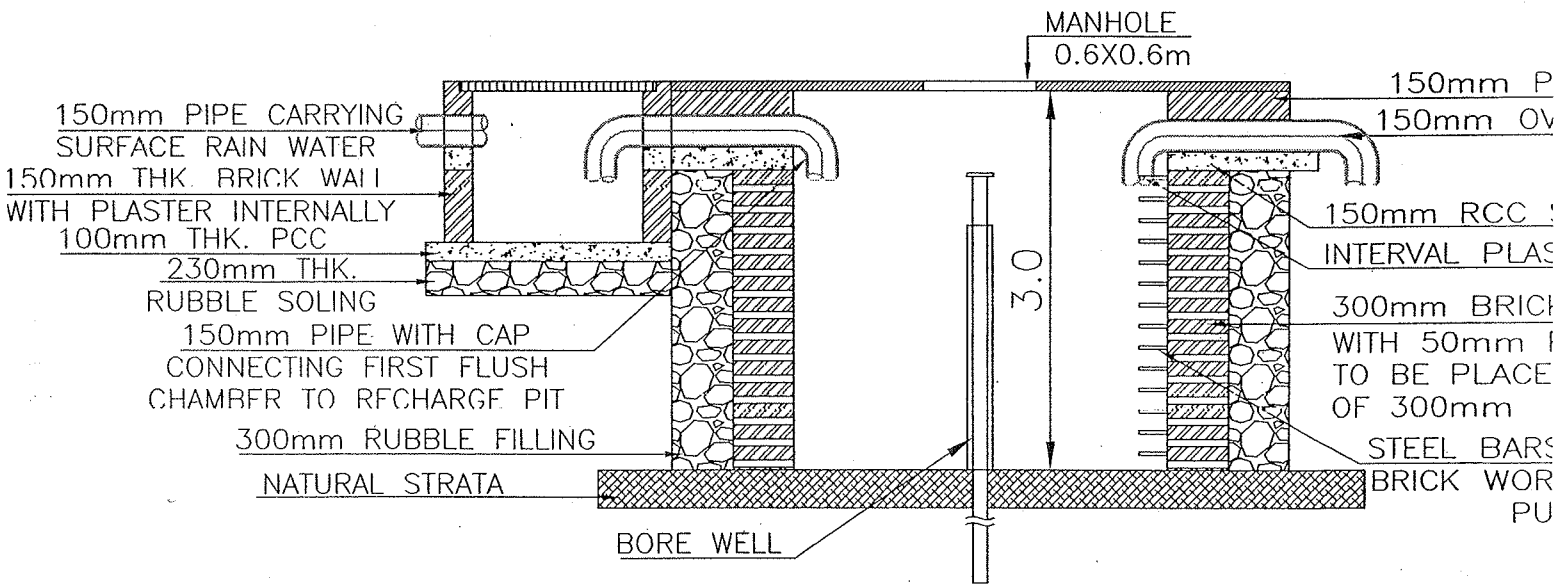


RAIN WATER HARVESTING RECHARGE PIT DET

(SIZE 2.5X2.5X3mDEPTH)



PLAN



SECTION A-A



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XI

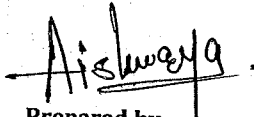
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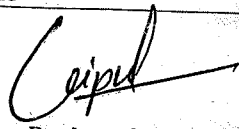
TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/43-722/2021-22
		Report Date	26/11/2021
		Inward No	11-318
		Inward Date	20/11/2021
Sample Testing Location	Laboratory	Analysis Start date	22/11/2021
Sample Detail	Well water-Yogesh Dhobale(East side)	Analysis End date	25/11/2021
Sample Collected By	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	0.33	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	1523	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.56	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	990	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	69.0	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	318	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	548	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	112	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	64.3	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	66.6	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	4.79	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.06	≤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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- ❖ 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. Karuna Kadam-Dhadse)

...End of test report...



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NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No AL/TR/43-725/2021-22
		Report Date 26/11/2021
		Inward No 11-321
		Inward Date 20/11/2021
Sample Testing Location	Laboratory	Analysis Start date 22/11/2021
Sample Detail	Well water-Nivruti Dhoble(West side)	Analysis End date 25/11/2021
Sample Collected By	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	0.18	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	589	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.01	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	383	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	21.7	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	169	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	164	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	42.4	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	13.9	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	5.64	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	4.26	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.12	≤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)

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 Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No AL/TR/43-726/2021-22
Sample Testing Location Laboratory		Report Date 26/11/2021
Sample Detail Well water-Yogesh Pingle(South Side)		Inward No 11-322
Sample Collected By Party		Inward Date 20/11/2021
Sample Volume 2250 ml		Analysis Start date 22/11/2021
		Analysis End date 25/11/2021
		Sample Condition Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.19	≤1.00	IS3025(Part-10)
4.	Conductivity	µMH0s/cm	1540	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.97	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1001	≤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	439	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	460	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	112	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	43.2	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	39.5	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	4.90	≤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	Absent	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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- ❖ 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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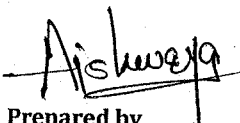
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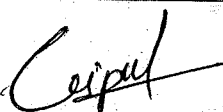
TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No AL/TR/43-724/2021-22
		Report Date 26/11/2021
		Inward No 11-320
		Inward Date 20/11/2021
Sample Testing Location Laboratory		Analysis Start date 22/11/2021
Sample Detail Borewell water-Bharat Dhoble(North side)		Analysis End date 25/11/2021
Sample Collected By 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	0.06	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1187	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.43	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	772	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	55.2	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	322	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	404	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	99.2	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	37.4	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	12.0	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	8.68	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.19	≤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

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- ❖ Opinion and interpretation - Not applicable


Prepared by
(Aishwarya Bobade)


Reviewed by
(Vipul Waghmare)


Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



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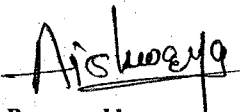
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TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No AL/TR/43-723/2021-22
		Report Date 26/11/2021
		Inward No 11-319
		Inward Date 20/11/2021
Sample Testing Location	Laboratory	Analysis Start date 22/11/2021
Sample Detail	Borewell water-Shankar Chakkar(North side)	Analysis End date 25/11/2021
Sample Collected By	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	0.33	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1838	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.27	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1195	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	241	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	397	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	620	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	172	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	45.6	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	61.3	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	7.30	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.16	≤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

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- ❖ Opinion and interpretation - Not applicable


Prepared by
(Aishwarya Bobade)


Reviewed by
(Vipul Waghmare)


Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

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- 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/62-538/21-22
		Report Date	29/11/2021
		Inward No	AL/7-287/09/21-22
Sample Location	Company Premises	Inward Date	20/11/2021
Sample Collected By	AARL	Sampling Time	04:00 PM To 04:30 PM
		Time duration	30 Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
A. Outside of Shop					
1.	Near Khandoba Mandir	dB(A)	60.3	≤ 75 dB(A)	IS 4762-1968 (PART 10) RA 2002
2.	Near Bas stand	dB(A)	65.9		
3.	Chichagai Road	dB(A)	56.1		
B. Inside of Shop					
4.	Boiler (old)	dB(A)	75.8	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
5.	Mill Section	dB(A)	85.6		
6.	Boiling House	dB(A)	84.9		

REMARK, OPINION & INTERPRITATION-

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

Alshy
Verified by
(Analyst)

Caipul
Authorized Signatory

...End of test report...



वन परिक्षेत्र अधिकारी, मंचर(प्रा) यांचे कार्यालय
वनसावित्री उद्यान, अवसरी घाट तालुका आंबेगाव, जिल्हा पुणे

E- Mail rfomanchar@gmail.com



विषय - झाडांमधील अंतर प्रमाणित करून
मिळणेबाबत.

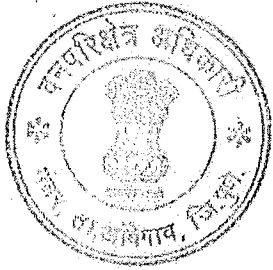
जा./क्र./संकिर्ण/ १७६८/२०१९ - २०

मंचर ४१०५०३ दिनांक - ०२/१२/२०१९

संदर्भ - 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/3894/2019
तालुका कृषि अधिकारी, आंबेगाव
(घोडेगाव) दि. 2/12/2019

प्रति,

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

विषय -- झांडामधील अंतर प्रमाणित करून मिळणेबाबत .

संदर्भ -- भिमशंकर सहकारी साखर कारखाना पारगाव त.अवसरी बु यांचे कडील
पत्र जाक्र /शेतकरी /2369/19 दिनांक 29/11/19.

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 6402 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

भीमाशंकर सहकारी साखर कारखाना लि., दत्तात्रयनगर

पारगाव तर्फे अवसरी बु.।।., ता.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 (पुर्वीची)	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	चिकू	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	जांभूळ	२८	०	२५	५३	६ X ६	३६	०.१९
१०	चिंच	७	४०	६५०	६९७	८ X ८	६४	४.४६
११	डाळींब	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	पिंपळ	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	कडुलिंब	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	खंबर	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	सुबाभळ	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	बाभूळ	६४	०	०	६४	६ X ६	३६	०.२३
४८	भोकर	१	०	०	१			

अ.क्र	झांडाची नावे	वृक्ष लागवड (संख्या)			आज अखेर एकूण	प्रति वृक्ष आवश्यक अंतर (मी. X मी.)	प्रति वृक्ष (स्वदेअर मी.)	वृक्ष लागवड क्षेत्र (हे.आर)
		२०१७-१८ (पूर्वीची)	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	शेवरी	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	बकवान	४	०	०	४			
५५	चेडुफळी	१	०	०	१			
५६	येहळा	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
	बुशीस							
६१	जास्वंद	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	मोरपंखी	१३	०	०	१३	२ X २	४	०.०१
६५	रातराणी	३	०	०	३			
६६	प्राणक्ता	२	०	०	२			
६७	खिसमरा	२	०	०	२			
	एकूण	५२१	०	०	५२१			०.२१
	फुलझाडे/ शोभेची झाडे							
६८	गुलाब	८८	०	०	८८	२ X १.५	३	०.०३
६९	लिली	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 डोरांटा	५३८	०	०	५३८	१.५ X १.५	०	०.००
७२	लॅन्टीना व्हेरीगेटेड	८५	०	०	८५	१.५ X १.५	२.२५	०.०२
७३	क्रिपरवडेलिया	१००	०	०	१००			
७४	हिमेलिया	६३	०	०	६३	१.५ X १.५	२.२५	०.०१
७५	मोगरा	१२	०	०	१२	१ X १	१	०.००
७६	आबोली	३	०	०	३			
७७	कॅलेडरा	२१२	०	०	२१२	१ X १	१	०.०२
७८	अकॅलीफा	२३०	०	०	२३०	१ X १	१	०.०२
७९	डबल तगर	५८	०	०	५८	१ X १	१	०.०१
८०	अंलॅमॅंडा	४१	०	०	४१	१ X १	१	०.००
८१	साबर कांडी	३०	०	०	३०	१ X १	१	०.००
८२	रेबीन 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	एवसालिफा	३५०	०	०	३५०	१ X १	१	०.०४
	एकूण	२०५३	०	०	२०५३			०.१९
	एकूण एकंदर	४७३७	५७०	११९५	६५०२			१९.५३

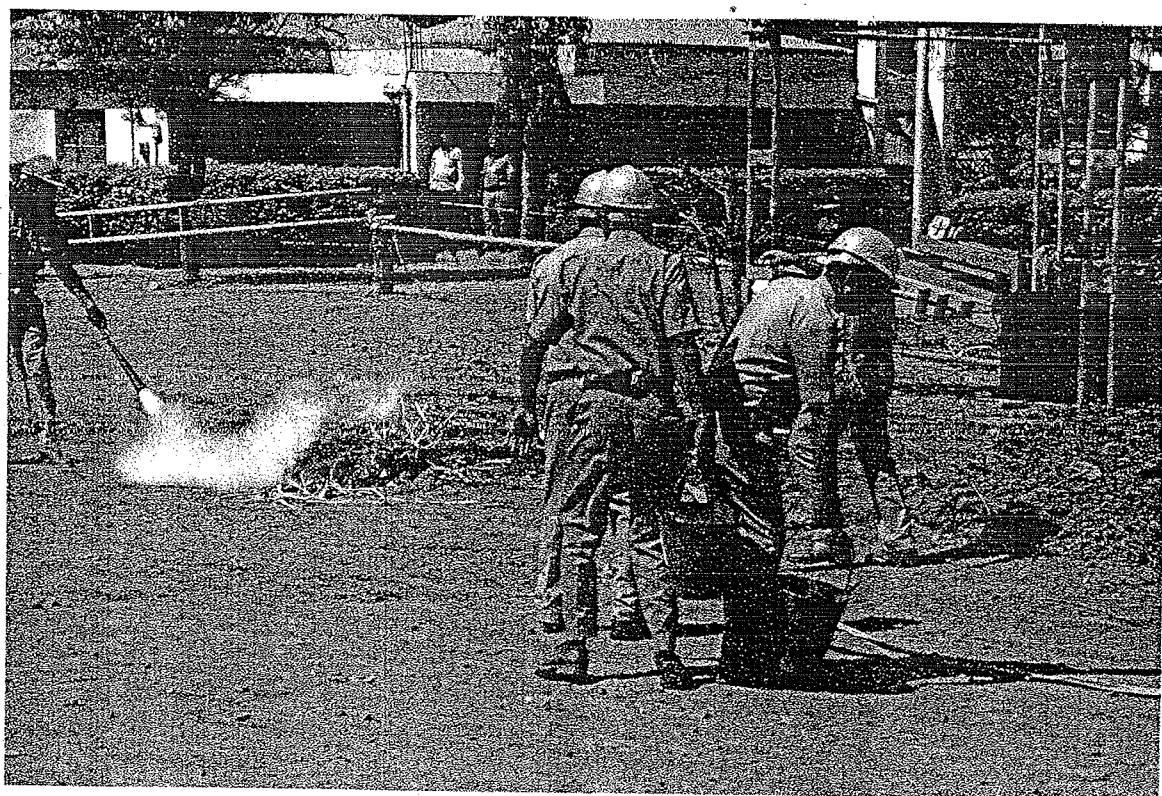
M. S. D. S.
२७/११/१९
मुख्य विकास अधिकारी

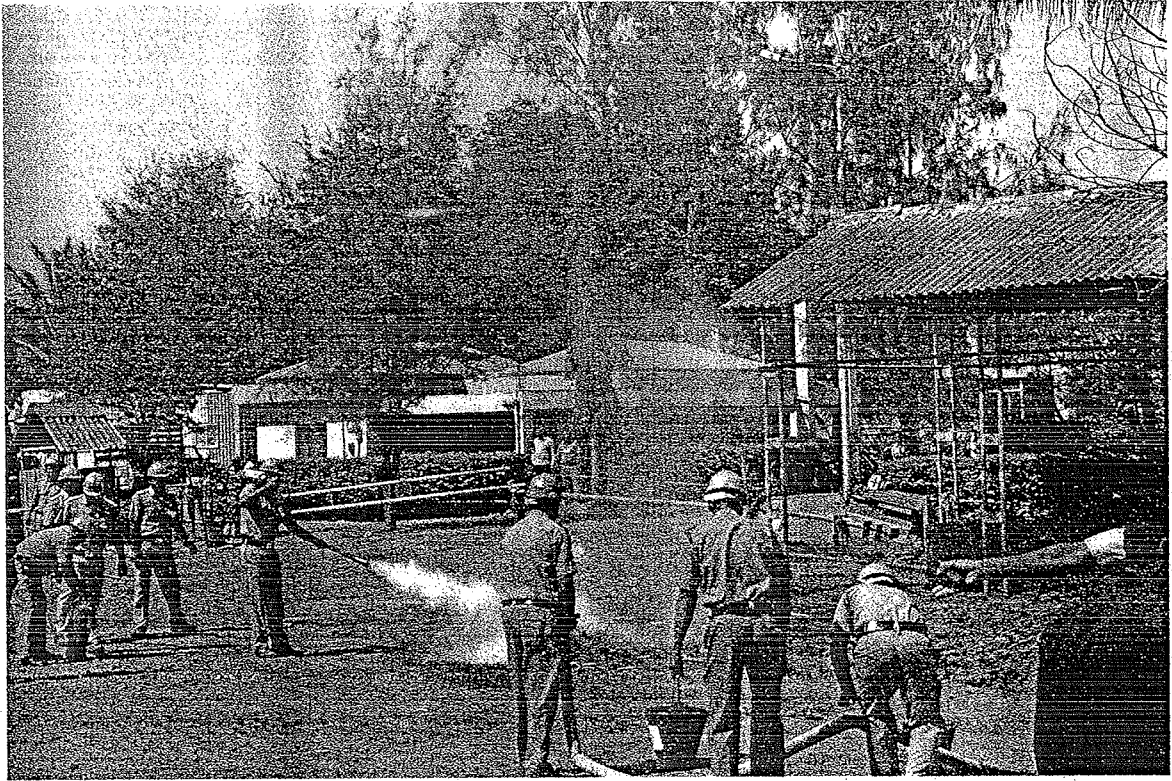
J. S. D. S.
२७/११/१९
मुख्य शेती अधिकारी

S. S. D. S.
२७/११/१९
कार्यकारी संचालक

A. S. D. S.
तालुका कृषि अधिकारी
आंबेगाव (घोड्याव), जि. पुणे







पुढारी दि १३ जुलै २०१२

पुढारी

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 Awabar, 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 2006. 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 १४ जुलै २०१२

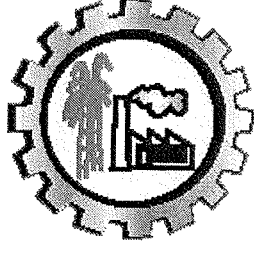
जाहीर सूचना

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

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

मे. भीमाशंकर सहकारी साखर कारखाना लिमिटेड
कार्यकारी संचालक

≡ MENU



भीमाशंकरसहकारीसाखरकारखानालि.

Marathi

English
Marathi

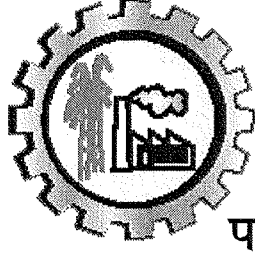
आमच्या विषयी
विभाग
यश
उत्पादने
सामाजिक बांधिलकी
गॅलरी
निविदा
अहवाल
शेतकरी पोर्टल
शैक्षणिक पोर्टल
करीयर

भीमाशंकर सहकारी साखर कारखाना लि.

Events

NEW! E-Tender Notice For Expansion Of Co-Generation Project

पर्यावरण विषयक



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.

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 Complinance 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 complaince Report 2018-19

Environmental Statement (Form-V) 2018-19

जलद दूसे

- > मूल्यमूल
- > कंपनी इतिहास
- > उत्पादने
- > कृषीय
- > वॉलरी
- > सफर

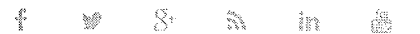
शेती टिपा

- > Select healthy sugar cane plants.
- > Split the sugar cane stems into foot-long pieces
- > Dig furrows in a sunny planting spot.
- > Moistur the furrows.
- > Fertilize the sugar cane with nitrogen.
- > Weed the planting bed often



Bhimashankar Sahakari Sakhar Karkhana

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☎ (02133)284241
✉ bssktd@gmail.com



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Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

Ann
XVIII

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000033037

Submitted Date

03-07-2021

PART A

Company Information

Company Name

Bhimashankar Sahakari Sakhar Karkhana Ltd.

Application UAN number

0000092460

Address

Dattatrayanagar, Pargaon Tarfe Awasari Bk.

Plot no

-

Taluka

Ambegaon

Village

Pargaon Tarfe Awasari Bk.

Capital Investment (In lakhs)

281,74,01,000/-

Scale

Red

City

Pargaon Tarfe Awasari Bk.

Pincode

412406

Person Name

Mr. Chandrakant G. Dhage

Designation

Managing Director

Telephone Number

(02133)284270

Fax Number

-

Email

bssklttd@gmail.com

Region

SRO-Pune II

Industry Category

Red

Industry Type

R12 Sugar (excluding Khandsari)

Last Environmental statement submitted online

yes

Consent Number

Format 1.0/CC/UAN No.MPCB-
CONSENT-0000092460/CO-2009000301

Consent Issue Date

07/09/2020

Consent Valid Upto

31/07/2023

Establishment Year

2000

Date of last environment statement submitted

Jun 22 2019 12:00:00:000AM

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

R12 Sugar (Excluding Khandsari)

Product Information

Product Name

Sugar

Consent Quantity

21600

Actual Quantity

15607.86

UOM

By-product Information

By Product Name

Bagasse

Consent Quantity

46800

Actual Quantity

37249.94

UOM

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	0
Domestic	96	54
All others	-	-
Total	1296	804

2) Effluent Generation in CMD / MLD			
Particulars	Consent Quantity	Actual Quantity	UOM
Trade Effluent	650	550	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	-	0.008	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	MT/A

4) Fuel Consumption			
Fuel Name	Consent quantity	Actual Quantity	UOM
Bagasse	46800	37249.94	

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	5.5-9.0	-

[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	150	-

Part-D

HAZARDOUS WASTES

1) From Process				
Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM	
5.1 Used or spent oil	0.240	0.260	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
Fly/Boiler Ash	-	3850	MT/A

2) From Pollution Control Facilities

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

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Fly/Boiler Ash	3850	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	6.45	515.00	16.0	1600	2.60	0.30

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

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

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection

Environmental Protection Measures
Tree plantation

Capital Investment (Lacks)
0.50

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

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000033037

Submitted On:

03-07-2021