Atul Bioscience Limited

ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

OF STIPULATED CONDITIONS OF ENVIRONMENTAL CLEARANCE

EC No: SIAIMH/IND2/152225/2020

Period – From Dec-2020 to May-2021

EC condition No.	Condition	Compliance status
	Specific Conditions	
I.	PP to implement the Guidelines for restoration of manufacturing industries after Lockdown period issued by Ministry of Home Affairs, National Disaster Management Authority on 09.05.2020.	Guidelines for restoration of manufacturing industries after lockdown period issued by Ministry of Home Affairs, National Disaster Management Authority on 09.05.2020 is referred and implemented. Checklist for restoration of manufacturing is prepared and implemented at site. Covid – 19 safety visuals are displayed at site. Thermal scanning, sanitization, social distancing is followed at site. Covid-19 training is given to the workers. **Annexure** – • Safety precautions for covid-19 • Covid-19 training questionnaire
II.	PP to submit an undertaking for not violating any condition stipulated in earlier EC.	The conditions stipulated in earlier EC will be complied. **Annexure** – • Undertaking for not violating EC conditions.
III.	PP to provide sewage treatment plant for the treatment of domestic sewage.	Site domestic sewage generation will be max. 22 CMD. The proposals for 25 KLD STP are taken from reputed vendors. Evaluation & approval is in process. Till that time the domestic effluent will be treated in existing ETP as per MPCB consent condition.

IV.	PP to submit construction waste management plan and fly ash management plan. All construction waste and fly ash shall be disposed of after obtaining permission from the competent Authority.	SOPs for construction waste management and fly ash management are prepared. Tie up with CHWTSDF (Mumbai waste management limited) is done for hazardous waste disposal. E waste will be disposed to authorized recycler. **Annexure –** • Construction waste & fly ash management SOP
V.	PP to prepare safety related training modules in Marathi / vernacular language based on hazard identification so as to increase its effectiveness and impart training to all concern employees.	Safety related training modules in Marathi and Hindi language are prepared and being imparted to employees as well as contractors. **Annexure –** Safety trainings – Hindi language
VI.	PP to submit structural stability of existing building on site w.r.t to the proposed expansion.	Structural stability certificate is obtained from structural engineer which is valid up to 26-06-2025 **Annexure –** • Certificate of stability
VII.	PP to provide Continuous Environmental Monitoring System and connect to the CPCB and MPCB server.	Continuous environmental monitoring system is provided at ETP outlet and connected to CPCB and MPCB server.
VIII.	PP to prepare and implement CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.	CER plan is prepared and submitted. **Annexure –** Acknowledge copy of CER plan submitted to MIDC.
IX.	PP to submit acknowledge copy of CER plan submitted to District Collector.	**Annexure –** Acknowledge copy of CER plan submitted to district collector
X.	PP to submit revised MIDC approval	MIDC – CC and provisional fire NOC against proposed expansion is received. Occupancy Certificate will be obtained and submitted once received. **Annexure –** • MIDC CC
XI.	PP to ensure to comply with the conditions stipulated in the Office Memorandum issued by MoEF& CC dated 9th August. 2018	Noted. Conditions stipulated in the Office Memorandum issued by MoEF& CC dated 9th August. 2018 will be complied.

	General Conditions	
I	PP to achieve Zero Liquid Discharge; PP shall ensure that there is no increase in the effluent load to CETP	In-house ZLD - zero liquid discharge effluent treatment plant consisting of neutralization, DAF, Aeration, MBR, UF, RO, MEE and ATFD is available. No raw effluent or treated effluent is sent to CETP. **Annexure –** • ETP-ZLD Process description and flow chart
II	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.	Noted. No additional land will be used /acquired for any activity of the project without obtaining proper permission.
III	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.	Complied. Adequate safety measures are taken for the health and safety of the people working in the industry. Safety control measures such as safety training, safety audits, workplace safety inspections, Accident investigations, process safety management, and engineering control are implemented at site. Management commitment towards safety of the people and environment protection is expressed in EHS policy and being followed. **Annexure –** • EHS Policy
IV	Proper Housekeeping programmers shall be implemented.	Complied. Good level of housekeeping and 5 S systems is implemented and maintained.
V	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.	Noted and will be followed.
VI	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).	Complied Stacks of adequate heights are provided to DG sets.

VII	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.	The detail proposal of ground water recharge type rain water harvesting with drawing is submitted to local MIDC for approval. Once it is approved, the project will be implemented. **Annexure –** Rain water harvesting proposal
VIII	Arrangement shall be made that effluent and storm water does not get mixed.	Complied. Separate arrangement is made for effluent and storm water.
IX	Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall he regularly submitted to the Maharashtra Pollution Control Board.	No ground water exists within premises.
X	Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.	Noted and complied. Periodic noise monitoring is carried out. Personal protective equipment is worn for high noise area.
XI	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.	Noted and complied. Periodic Ambient noise monitoring is carried out by MoEF approved laboratory. **Annexure –** • Noise monitoring report
XII	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.	Noted. Green belt area is already maintained and will be improved as per CPCB guidelines. **Annexure –** Few site photos showing green belt.
XIII	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and	Noted. Fire detection system is installed at site. Process scrubbers and boiler stacks of adequate height are installed to avoid environmental pollution.

	warning.	
XIV	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act. XV (The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Medical examination is done on regular basis and Health register Form-7 as per Factories Act is maintained. Well-equipped fire protection system consisting Fire Hydrant System, Fire Extinguisher, Manual Call points, Detectors, Sprinkler etc. are provided in manufacturing area and being inspected regularly. **Annexure –** Medical examination report
XV	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.	Noted & Complied. Generated Hazardous waste is sent to CHWTSDF (Mumbai Waste Management Ltd) Tie up is also done with MWML. **Annexure –** MWML Membership PI Payment against PI is done. Certificate waited.
XVI	Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.	Noted and Complied. Mock drills are conducted as per factories act and records are maintained as well as submitted to concern authorities. **Annexure –** • Mock drill report – May 2021
XVII	A separate environment management cell with qualified staff shall be set up for Implementation of the stipulated environmental safeguards.	Complied. **Annexure –** • Copy of Organization chart.

XVIII	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.	Noted. Separate budgeting is considered for Environment protection measures.
XIX	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://parivesh.nic.in.	Complied. The advertisement is published in Marathi newspaper – Punyanagari and English newspaper – Free press journal **Annexure –** • Copy of newspapers**.**
XX	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.	Noted and will be complied as per schedule.
XXI	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Complied. **Annexure –** • Copy of EC is submitted to Ambernath Municipal council.
XXII	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective	Noted and complied. Air quality monitoring is done by MoEF approved laboratory. **Annexure –** • Ambient air quality monitoring report.

XXIII	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Noted & will be complied as per schedule.
XXIV	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Complied **Annexure –** • Copy of Environmental statement Form-V

For M/s. Atul Bioscience Ltd

Mr. Kailas Bharambe

(GM – Manufacturing & Technology)

Enclosures:

Atul Bioscience Ltd.

 हाथों को बार-बार साबुन और पानी से धोएं	 अपले हाथों को अल्कोहल-आधारित हैड सैनिटाइजर से अक्सर साफ करें	 सार्वजनिक स्थलों पर मास्क पहनें या मुँह पर कपडा बांधें
 बिना हाथ धोए आँख, नाक व् मुँह को न छुएं	 ६ फिट का फासला बनाये रखें	 भीड वाली जगहों पर न जायें
 काम करने की जगह या सार्वजनिक स्थलों पर कभी न थूकें	 कोरोना वायरस संक्रमण के लक्षण दिखते ही नजदीकी आरोग्य केंद्र में संपर्क करें	 किसी व्यक्ति को अभिवादन के लिये नमस्ते करें

अतुल बायोसायन्स लिमिटेड अंबरनाथ

कोविड - १९ च्या काळात कंपनी मध्ये घ्यावयाची काळजी

कंपनीत प्रवेश करताना सुरक्षित अंतर पाळा

सॅनिटायझर चा वापर करा

शरीराचे तापमान मोजा, ताप असलेल्या व्यक्तीस प्रवेश मनाई आहे

अटेन्डन्स साठी फेस रिडींग मशीन चा वापर करा

कार्यस्थळाचे वेळोवेळी निर्जंतुकीकरण करा

कंपनी बस चे नियमितपणे निर्जंतुकीकरण करा

मास्क चा वापर करणे बंधनकारक आहे

अंतर्गत मिटिंग टाळा. मिटिंग घ्यावयाची असल्यास ५ पेक्षा कमी व्यक्ती असाव्यात

जेवणाच्या वेळा ठरवून घ्याव्यात. जेवताना सुरक्षित अंतर पाळा.

प्रत्येक कार्यस्थळात सॅनिटायझर ठेवले आहे त्याचा नियमितपणे वापर करा .

कार्यस्थळ नियमितपणे स्वच्छ करा.

नोटीस बोर्ड वर लावलेल्या तसेच सुरक्षा ट्रैनिंग दरम्यान दिल्या जाण्या-या सूचनांचे काटेकोरपणे पालन करा.

सावध राहू या ...कोरोनावर मात करूया...

COVID - 19 TRAINING QUESTIONNAIRE

Date: ……

Name: …….. **Emp Code: ……..**

Business: …… **Plant: ……**

1. Is there a vaccine or drug for COVID - 19? (Yes | No)

2. What are the symptoms of COVID - 19?

   a) Fever b) Cough c) Shortness of breath d) All are a, b & c

3. How does COVID - 19 spread?

   a) Direct contact with infected person.
   b) Maintain social distance.
   c) Use common soap
   d) None of above

4. Can mosquitoes or flies spread the virus that causes COVID - 19? (Yes | No)

5. How to protect yourself & others

   a) Wash your hand often. b) Close contact c) Cover coughs and sneezes d) Both a & c

6. How many persons are allowed on motorcycle?

   a) 3 b) 2 c) 1 d) None of all

7. Senitizer can be used near hot work area? (True | False)

8. How much time is required for hand wash?

   a). 10 sec b). 20 sec c). 05 sec d). 30 sec

9. Which are the PPE's required for Sanitization?

   a) Face mask, Goggles, Gum boot, Rubber hand gloves
   b) Helmet, safety shoe, cotton hand gloves, goggles.
   c) Safety shoe, face mask, rubber hand gloves, goggles.
   d) Cotton hand gloves, Gum boot, Rubber hand gloves, goggles

10. After 6 pm truck and tankers are allowed in the plant? (Yes | No)

11. Select correct picture

 A  B

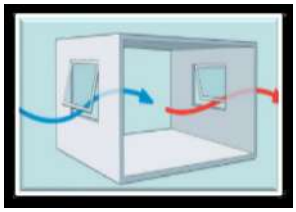
12.Select correct picture

 A  B

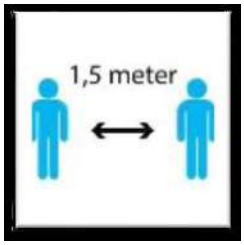
13. Select correct picture

 A  B

14. Select correct picture

 A  B

15. Select correct picture



A  B

Marks Obtained	Correct Answer	Incorrect Answer
Name & Sign. of trainer		

Atul Bioscience Ltd
Plot N-37, Additional Ambernath Industrial Area, MIDC, Anand Nagar
MMR Zone-II, Ambernath (East) 421 506, Maharashtra, India
pharma@atul.co.in | www.atulbio.co.in

November 20, 2020

To,

Environment Department

Room No. 217, 2nd Floor,

Mantralaya,

Mumbai- 400032.

UNDERTAKING

I, Kailas Bharambe, Project Proponent of M/s. Atul Bioscience Limited, Plot N-37, Additional Ambernath Industrial Area, MIDC Anand Nagar, Ambernath, Maharashtra – 421 506 solemnly undertake the following in connection with specific condition mentioned in EC No. SIAIMH/IND2/152225/2020 received from Environment department, Mantralaya, Mumbai dated June 26, 2020.

We, M/s. Atul Bioscience Ltd., Ambernath are not violating any of the conditions stipulated in earlier Environment Clearance No. SEIAA-EC-0000001915 dated August 3, 2019.

For Atul Bioscience Limited

Kailas Bharambe
(GM- Manufacturing & Technology)

1. OBJECTIVE :

To establish basic guidelines for collection, storage and disposal of C&D (construction and demolition) waste generated as result of activities at **ABL** (Atul Bioscience Limited) site

2. SCOPE:

This SOP is applicable for construction and demolition activities at Atul Bioscience Limited Ambernath.

3. RESPOSIBILITY :

3.1 Waste Generator:

3.1.1 Collection & segregation of C&D waste at source.

3.1.2 Labeling / tagging to C&D waste.

3.1.3 Shifting of C&D waste in designated area.

3.1.4 Co-ordination with authorized vendor for disposal of C&D waste.

3.2 EHS Representative / Head:

3.2.1 Ensure the safe disposal of C&D waste.

4. ACCOUNTABILITY:

4.1 HOD / Designee: Project / Engineering

4.2 HOD / Designee - Environment, Health & Safety

5. PROCEDURE

5.1 **Definition:**

5.1.1 **Construction**: It means the process of erecting of building or built facility or other structure, or building of infrastructure including alteration in these entities

5.1.2 **Demolition**: It means breaking down or tearing down buildings and other structures either manually or using mechanical force (by various equipment).

5.1.3 **Construction and demolition Waste:** It means waste comprising of building materials, debris and rubble resulting from construction, re-modeling, repair and demolition of any civil structure.

5.1.4 **C&D waste generators**: It means any person or association of persons or institution, residential and commercial establishments including Indian Railways, Airport, Port and Harbour and Defence establishments who undertakes construction of or demolition of any civil structure which generate construction and demolition waste.

5.1.5 The major constituents are concrete, soil, bricks, wood, asphalt and metal. Brick & masonry, soil, sand & gravel account for over 60% of total waste. Excavations, concrete, masonry and wood together constitute over 90% of all C&D waste.

5.1.6 **Disposal:** It means the final and safe disposal of solid waste on land as specified in Schedule I to prevent contamination of ground water, surface water, ambient air and attraction of animals or birds.

5.2 Head – Project / Engineering shall identify construction and demolition waste arising out of the various project activities carried out at site.

5.3 Head – Project / Engineering shall dedicate the place for storage of waste.

5.4 Head – Project / Engineering/ EHS shall conduct the tool box talk with contractor and explain them about the construction and demolition waste management at site.

5.5 Individual contractor are responsible for collection, segregation and storage of waste at designated place.

5.6 Individual contractor shall segregate generated waste like civil, metallic, electrical, insulation etc.

5.7 If the waste is contaminated with chemicals, then it should be decontaminated before disposal.

5.8 Agreement with civil contractor to be done for safe disposal of civil debris/waste.

5.9 Following disposal methodology to be used for disposal of construction and demolition waste:

SR. NO.	TYPE OF WASTE	DISPOSAL METHODOLOGY
1	Civil waste	1) To be stored within premises at designated place. 2) To be used for re-filling excavated area / leveling of land wherever required. 3) To be taken out by civil contractor and use for landfill / reuse at other construction site in safe manner. 4) To be sold to C&D waste recyclers.
2	Metallic Waste	To be sold to authorized scrap vendor.
3	Electronic / electrical waste	To be disposed-off through authorized e waste recycler.
4	Other miscellaneous waste	To be sold to authorized scrap vendor.

5.10 Head - EHS shall co-ordinate with CHWTSDF (Common Hazardous Waste Transport, Storage, and Disposal Facility) for disposed of contaminated construction and demolition waste as per requirement.

5.11 Use of appropriate Personal Protective Equipment such as Safety Helmet, Safety goggle, Nitrile rubber / PVC hand gloves, safety shoes, apron etc. where ever applicable should be ensured while handling construction and demolition waste material.

5.12 Engineering department shall ensure that used batteries are not disposed of in any manner other than depositing with dealer, manufacturer, importer, assembler, registered recycler, re-conditioners.

5.13 Engineering and IT department shall ensure that e-waste i.e. electrical and electronic equipment's listed in Schedule I of The e-waste (Management and Handling) Rules, 2011 is channelized to authorized collection centers or registered dismantlers or recyclers or is returned to the pick-up or take back services provided by the producers.

6. FORMATS:

SR. NO.	FORM NO.	DESCRIPTION
1	FORM - 4	FORM FOR FILING ANNUAL RETURNS BY THE OCCUPIER OR OPERATOR OF FACILITY

7. FREQUENCY:

7.1 As when required

8. REFERENCE:

8.1 The Construction and demolition Waste Rules, 2016

8.2 The Batteries (Management and Handling) Rules, 2001 as amended by (Amendment) rules, 2010.

8.3 The e -waste (Management and Handling) Rules, 2016

9. GLOSSARY & ABBREVIATIONS:

Sr. No.	Abbreviations	Full Description
9.1	SOP	Standard Operating Procedure
9.2	EHS	Environment Health and Safety
9.3	ABL	Atul Bioscience Limited
9.4	ETP	Effluent Treatment Plant
9.5	CHWTSDF	Common Construction and demolition Waste Transport, Storage, Disposal Facility.
9.6	MWML	Mumbai Waste Management Limited
9.7	C & D	Construction and demolition waste
9.8	NA	Not Applicable
9.9	HOD	Head of department
9.10	Sr.	Serial
9.11	No.	Number
9.12	Sign.	Signature

……END OF THE DOCUMENT……

1. OBJECTIVE :

To establish basic guidelines for control, collection, storage and disposal of fly ash generated as result of coal fired boiler operation at **ABL** (Atul Bioscience Limited) site

2. SCOPE:

This SOP is applicable for fly ash management at Atul Bioscience Limited Ambernath.

3. RESPOSIBILITY :

3.1 Boiler Operator:

3.1.1 Operation and maintenance of wet scrubber.

3.1.2 Collection of fly ash.

3.1.3 Shifting of fly ash to designated area.

3.1.4 Spraying of water on fly ash to avoid dusting in atmosphere / surroundings.

3.2 Engineering Head /Designee:

3.2.1 Co-ordination with store department for disposal once the enough quantity is generated.

3.3 Store Head /Designee:

3.3.1 Co-ordination with authorized vendor for disposal of generated fly ash.

3.3.2 Documentation for the disposal of fly ash.

3.3.3 Maintain the record of fly ash disposal.

3.4 EHS Head /Designee:

3.4.1 Ensure the safe disposal of fly ash with authorized vendor.

4. ACCOUNTABILITY:

4.1 HOD / Designee: Engineering

4.2 HOD / Designee - Environment, Health & Safety

5. PROCEDURE

5.1 **Definition:**

5.1.1 **Fly ash:** Fly ash is a byproduct from burning pulverized coal in coal fired boiler. Coal is used in boiler for steam generation.

5.1.2 **Disposal:** It means the final and safe disposal of solid waste on land as specified in Schedule I to prevent contamination of ground water, surface water, ambient air and attraction of animals or birds.

5.2 Dust collector followed by wet scrubber is provided at outlet of boiler flue gas. Boiler operator shall operate and ensure smooth working of these systems.

5.3 Boiler operator / firemen shall collect the generated ash and shift it to designated area.

5.4 Boiler operator shall co-ordinate with engineering head / designee about the generation of enough quantity of ash for disposal.

5.5 Engineering head / designee shall co-ordinate with store department to initiate the disposal process.

5.6 Store head / designee shall contact the authorized vendor for the disposal of ash.

5.7 Store head / designee shall prepare the required documentation for disposal of ash.

5.8 EHS head / designee shall impart tool box training to ash truck loading team.

5.9 All necessary personal protective equipment – safety helmet, safety shoes, dust mask shall be used during the unloading activity.

5.10 Store representative shall supervise the loading activity.

5.11 Once the truck is loaded, it will be taken out by following all necessary documentation at security gate.

5.12 Security personnel shall accompany with driver for weighing.

5.13 Security personnel shall submit the weigh slip to store department.

5.14 Store department shall maintain the records of ash disposal.

5.15 Agreement with authorized vendor to be done for safe disposal / recycle of ash.

6. FORMATS:

SR. NO.	FORM NO.	DESCRIPTION
1	Agreement with authorized vendor	For safe disposal / recycle of ash

7. FREQUENCY:

7.1 As when required

8. REFERENCE:

8.1 Site rules & practices

9. GLOSSARY & ABBREVIATIONS:

Sr. No.	Abbreviations	Full Description
9.1	SOP	Standard Operating Procedure
9.2	EHS	Environment Health and Safety
9.3	ABL	Atul Bioscience Limited
9.4	NA	Not Applicable
9.5	HOD	Head of department

SAFETY TRAININGS (सुरक्षा प्रशिक्षण)

कार्यस्थल में सुरक्षा

कार्यस्थलमें कार्य करते समय प्रत्येक श्रमिक को अपने बचाव का ध्यान रखना चाहिए। "सावधानी हटी और दुर्घटना हुई" इसे प्रत्येक श्रमिक को सदैव याद रखना चाहिए। एक छोटी सी असावधानों बहुत बड़ा दुर्घटना का कारण बन सकती है। इससे मशीन को हानि पहुँच सकती है, उत्पादन पर असर पड सकता है और कभी-कभी श्रमिक की जान का खतरा भी हो जाता है। इस प्रकार कार्यस्थल में सावधानी का बहुत बड़ा महत्व है।

सुरक्षा एक क्रिया है जो हमारी सभी क्रियाओं को ऐसे व्यवस्थित और नियंत्रित करती है कि न तो स्वयं दुर्घटना के शिकार होते हैं और न ही अन्य लोग इससे प्रभावित होते हैं। अतः एक अच्छे शिल्पकार को सुरक्षा की जानकारी होती है। वह सुरक्षित और स्वीकृत कार्यविधियों को जानता है और व्यवहार में लाता है।

दुर्घटनाओं के कारण:

I. श्रमिक की लापरवाही।

II. श्रमिक की अज्ञानता।

III. श्रमिक का कार्य में अधिक आत्मविश्वास।

IV. श्रमिक की कार्य में अरुचि।

V. श्रमिक की अपनी स्वयं की और मशीन की क्षमता की अपेक्षा अधिक जल्दी कार्य करने की इच्छा।

VI. मशीन की खराब दशा।

VII. औजारों की खराब दशा।

VIII. श्रमिक द्वारा कार्य करने की ठीक विधि न अपनाना।

IX. श्रमिक द्वारा कार्य के अनुसार उचित औजारों का प्रयोग न करना।

X. श्रमिक की मानसिक दशा ठीक न होना।

XI. मशीन के गतिशील पुर्जों जैसे गियर, बेल्ट, पुली आदि पर गार्ड का प्रयोग न करना।

XII. श्रमिक की पोशाक ठीक न होना।

XIII. उत्पादित पुर्जों को सही स्थान पर न रखना।

XIV. वर्कशाप में बिजली और लाइट की व्यवस्था ठीक न होना।

XV. श्रमिकों में अनुशासन की कमी होना।

वर्कशाप के सुरक्षा नियम (Safety Rules of a Workshop):

वर्कशाप में कार्य करते समय सुरक्षा के लिए प्रायः निम्नलिखित नियम अपनाने चाहियें:

I. सामान्य सुरक्षा नियम:

i. श्रमिक को अपने कार्य के लिये पूर्ण जानकारी कर लेनी चाहिए। यदि कोई संदेह हो तो वरिष्ठ अधिकारी से पूछ लेना चाहिए।

ii. अपने कार्य स्थल को साफ रखना चाहिए।

iii. कार्य करते समय प्रत्येक श्रमिक को वर्कशाप की चुस्त फिटिंग वाली पोशाक पहननी चाहिए।

iv. कार्य करते समय कमीज की लंबी आस्तीनों को ऊपर चढ़ा लेना चाहिए।

v. किसी श्रमिक के बाल लंबे है तो कार्य करते समय सुरक्षा टोपी पहन कर उन्हें आवृत कर लेना चाहिए।

vi. वर्कशाप में कार्य करते समय किसी भी श्रमिक को अंगुठी, घड़ी, मफलर और टाई आदि नहीं पहननी चाहिए।

vii. वर्कशाप में कार्य करते समय आंखों के बचाव के लिये चश्मा और पैरों के बचाव के लिये मोटे तलों वाले तेल प्रतिरोधी जूते पहनने चाहिए।

viii. बिना जानकारी के किसी भी मशीन को छूना नहीं चाहिए।

ix. कार्य करते समय आपस में मजाक या मूर्खतापूर्ण आचरण नहीं करना चाहिए।

x. वर्कशाप के फर्श पर तेल या ग्रीस आदि नहीं फैलाना चाहिए।

xi. सीढ़ी का प्रयोग करने के लिये उसे धरातल पर अच्छी तरह से रुकावट लगा कर प्रयोग में लाना चाहिए।

xii. यदि किसी कारणवश दुर्घटना हो जाये तो उसकी सूचना वरिष्ठ अधिकारी को तुरंत देनी चाहिए।

II. हस्त औजारों से सुरक्षा:

i. कार्य-क्रिया के अनुसार सही औजारों का प्रयोग करना चाहिए।

ii. खराब औजारों को प्रयोग में नहीं लाना चाहिए।

iii. बिना दस्ते की रेती का प्रयोग नहीं करना चाहिए।

iv. टूटे या ढीले दस्ते वाले हथौड़े का प्रयोग नहीं करना चाहिए।

v. छत्रक मत्थे वाली छैनी या पंच का प्रयोग नहीं करना चाहिए।

vi. रेती का प्रयोग उत्तोलक की तरह नहीं करना चाहिए।

vii. स्टील रूल का प्रयोग पेंचकस की तरह नहीं करना चाहिए।

viii. पेंचकस द्वारा पेंच को कसने या खोलने के लिये कार्य को हाथ में नहीं पकड़ना चाहिए।

ix. सदैव ठीक साइज के मेनर का प्रयोग करना चाहिए।

x. सूक्ष्ममापी यंत्रों को हस्त औजारों के साथ मिला कर नहीं रखना चाहिये।

III. मशीन से सुरक्षा:

i. मशीन पर कार्य करने से पहले यह जानकारी करना आवश्यक है कि वह किस बटन से चालू होती है और किससे बंद होती है।

ii. मशीन पर कार्य करते समय छीलन को हाथ से साफ नहीं करना चाहिये।

iii. चालू मशीन को साफ करने का प्रयत्न नहीं करना चाहिये।

iv. यदि कार्य करते समय कुछ खराबी आ जाये तो मशीन को तुरन्त बंद कर देना चाहिये।

v. मशीन पर कार्य करते समय चश्मा पहनना आवश्यक है।

IV. इलेक्ट्रिक पॉवर से सुरक्षा:

i. यदि बिजली की पॉवर में कोई खराबी दिखाई दे तो उसकी सूचना अपने वरिष्ठ अधिकारी को तुरन्त देनी चाहिए।

ii. बिजली की नंगी तारों को प्रयोग में नहीं लाना चाहिये।

iii. यदि बिजली का प्लग या तार वगैरा टूट जाये तो उन्हें बदलवा लेना चाहिये।

iv. केवल कुशल बिजली मिस्त्री को ही बिजली ठीक करने की अनुमति देनी चाहिये।

V. भार उठाने के लिये सुरक्षा:

i. किसी ऐसे बोझ को उठाने का प्रयत्न नहीं करना चाहिये जिससे शरीर की नसों पर तनाव आने की संभावना हो।

ii. उठाकर ले जाने वाली सामग्री का सुरक्षापूर्ण संचालन करने में कुछ कठिनाई अनुभव होने पर अपने साथी से सहायता मांग लेनी चाहिये ।

iii. किसी बोझ को उचित ढंग से उठाने के लिये बोझ के जितने नजदीक हो सके उतना नजदीक झुकना चाहिये, अपनी पीठ को सीधा रखना चाहिये और बोझ को मजबूती से पकड़ कर टांगो को सीधा करते हुए उठाना चाहिए ।

iv. सदैव उचित प्रकार का उत्थापन साधन उपयोग में लाना चाहिये ।

v. किसी वस्तु का स्थानान्तर करने से पहले रास्ते के फर्श पर फिसलने वाले भागों को साफ कर लेना चाहिये और बाधा उत्पन्न करने वाले पदार्थों को हटा देना चाहिये ।

वर्कशाप में आग और आग की दुर्घटनायें (Fire and Fire Accidents in a Workshop):

आग लगाना एक प्रकार की विधि है जिससे गर्मी और लाइट पैदा होती है । यदि किसी कारणवश आग से दुर्घटना हो जाती है तो उसे आग की दुर्घटना कहते हैं । आग की दुर्घटना प्रायः लापरवही के कारण होती है जिससे जान और माल दोनों का नुकसान हो सकता है । आग फैलाने के लिये ताप, आक्सीजन और ईंधन आवश्यक तत्व होते है ।

आग फैलाने के लिए तीन तत्वों अर्थात ईंधन, ताप और ऑक्सीजन का होना अत्यावश्यक होता है जिसे फायर ट्रैंगल कहते हैं । जब ये तीनों आपस में मिलते हैं तो ईंधन के पर्याप्त गर्म होने और हवा में ऑक्सीजन होने के कारण आग फैल जाती है ।

आग के प्रकार:

आग प्रायः निम्नलिखित प्रकार की होती है:

i. कार्बोनेशियस फायर:

जो आग लकड़ी, कच्चे कोयले और पक्के कोयले से जलाई जाती है उसे कार्बोनेशियस फायर कहते हैं । इसको बुझाने के लिए पानी का प्रयोग किया जाता है । इसके अतिरिक्त सोडा एसिड एक्स्टींग्यूशर भी प्रयोग में लाया जा सकता है ।

ii. ऑयल फायर:

जो आग तेलीय पदार्थों से जलाई जाती है वह ओंयल फायर कहलाती है। इस प्रकार की आग खतरनाक होती है। इसको बुझाने के लिए कठिनाई का सामना करना पड़ता है। इस आग को बुझाने के लिए फोम फायर एक्स्टींग्यूशर का प्रयोग किया जाता है।

iii. इलेक्ट्रिकल फायर:

जो आग बिजली से जलती है उसे इलेक्ट्रिकल फायर कहते हैं। इस आग को बुझाने के लिए सी.टी.सी. फायर एक्स्टींग्यूशर का प्रयोग किया जाता है।

सुरक्षार्थ सावधानियां:

1. जिन पदार्थों को आग जल्दी पकड़ती है उन्हें अलग स्थान पर रखना चाहिए।

2. वर्कशाप में धूम्र-पान नहीं करना चाहिए।

3. कार्य करने वाले स्थान को अच्छी तरह से साफ रखना चाहिए और मशीन को साफ करने वाले कॉटन वेस्ट को प्रयोग में लाने के बाद एक पीपे या बॉक्स में डाल कर ढक्कन से बद कर देना चाहिए।

4. मध्यान्तर के समय और शाम को वर्कशाप बद करते समय बिजली के बटनों को ऑफ कर देना चाहिए।

5. आग बुझाने के लिए वर्कशाप में रेत और पानी की बाल्टियां भर कर रखनी चाहिए।

6. आग बुझाने के लिए वर्कशाप में फायर एक्स्टींग्यूशर तैयार रखने चाहिए।

7. यदि किसी कारणवश आग लग जाये तो वर्कशाप की खिडकियां और दरवाजे बंद रखने चाहिए जिससे आक्सीजन को कंट्रोल किया जा सकता है।

8. यदि आग तेल से लगी हो तो उसे बुझाने के लिए रेत या मिट्टी का प्रयोग करना चाहिए और पानी का प्रयोग बिल्कुल नहीं करना चाहिए।

9. यदि आग लकड़ी या कोयले में लगी है तो पानी का प्रयोग करना चाहिए।

10. आग फैलने पीआर फायर ब्रिगेड़ को टेलीफोन करके उसकी सेवायें प्राप्त की जा सकती है।

फायर एक्स्टींग्यूशर:

यह एक प्रकार का उपकरण है जो प्रायः शंकु के आकार का होता है और लोहे का बनाया जाता है। इसके प्रकार के अनुसार इसमें गैसें या केमिकल भर दिये जाते हैं जिनसे आग को बुझाया जा सकता है। इनको वर्क श्राप में निश्चित स्थान पर लटका दिया जाता है और आवश्यकता पडने पर आग बुझाने के लिए प्रयोग में लाया जाता है।

प्रकार:

i. सोडा एसिड एक्स्टींग्यूशर:

इस प्रकार के एक्स्टींग्यूशर का प्रयोग कार्बोनेशियस फायर को बुझाने के लिए प्रयोग में लाया जाता है। इसको इलेक्ट्रिकल या आयल फायर पर प्रयोग में नहीं लाना चाहिए। इसके। पहचानने के लिये एक्स्टींग्यूशर की बॉडी पर लगभग 100 मि.मि. साइज का पीले रंग का हाथ बना होता है।

ii. फोम एक्स्टींग्यूशर:

इस प्रकार के एक्स्टींग्यूशर का प्रयोग ऑयल फायर को बुझाने के लिए किया जाता है। इसमें दो कन्टेनर होते हैं। बाहरी कन्टेनर में सोडा बाई कार्बोनेट का घोल और अन्दरूनी कन्टेनर में एल्युमीनियम सल्फेट का घोल होता है इसको पहचानने के लिए एक्स्टींग्यूशर की बॉडी पर लगभग 100 मि. मी. साइज का भूरे रंग का हाथ बना होता है।

iii. सी.टी.सी. एक्स्टींग्यूशर:

इस प्रकार के एक्स्टींग्यूशर का प्रयोग इलेक्ट्रिकल फायर पर किया जाता है। यह एक पीतल का सिलेण्डर होता है। जिसमें डबल एक्टिंग फोर्स पंप लगा होता है। इसका प्रयोग ऊपर लगे

हैंडल के द्वारा किया जाता हैं। इसमें सिलण्डर को कार्बन टेटरा क्लोराइड के तरल पदार्थ से भर दिया जाता है। जब इसका प्रयोग किया जाता है यह भाप के रूप में निकलता है।

iv. ड्राई केमिकल एक्स्टींग्यूशर:

इस प्रकार के एक्स्टींग्यूशर का प्रयोग इलेक्ट्रिकल फायर पर किया जाता है। यह प्रायः प्लंजर टाइप होता है। इसमें कार्बन डाई ऑक्साइड या नाइट्रोजन गैस के द्वारा सोडियम बाई कार्बोनेट पाउडर को बाहर निकाला जाता है।

वर्कशाप में प्राथमिक चिकित्सा (First Aid Facility in a Workshop):

समझदार कारीगर कार्यशाला में अपना कार्य सावधानी और सुरक्षा को ध्यान में रखकर करते हैं परंतु फिर भी यह देखा गया है कि कार्यशाला में किसी न किसी कारणवश छोटी-बड़ी दुर्घटनायें होती ही रहती हैं इसलिये यह आवश्यक हो जाता है कि प्राथमिक चिकित्सा के बारे में जानकारी हो क्योंकि तुरंत डाक्टरी सहायता मिलने में देरी हो सकती है। इस प्रकार घायल व्यक्ति की चिकित्सक के आने से पहले जो प्राथमिक सहायता की जाती है उसे प्राथमिक चिकित्सा कहते हैं। प्राथमिक चिकित्सा के लिये ज्ञान और अभ्यास का होना अति आवश्यक है। प्राथमिक चिकित्सा के बाद घायल व्यक्ति को चिकित्सक के सुपुर्द कर देना चाहिए।

प्राथमिक चिकित्सा के लिए कुछ निर्देश:

प्राथमिक चिकित्सा करने के लिए कुछ महत्वपूर्ण निर्देश नीचे दिये गये हैं:

i. प्राथमिक चिकित्सा करते समय घायल व्यक्ति को देखकर घबराना नहीं चाहिए।

ii. प्राथमिक चिकित्सा करते समय दुर्घटना के कारण की जानकारी कर लेने के बाद मशीन, गैस या बिजली के मेन स्विच को ऑफ कर देना चाहिए।

iii. जहां तक संभव हो घायल व्यक्ति को दुर्घटना स्थल से हटा देना चाहिए।

iv. घायल व्यक्ति के चारों ओर भीड़ नहीं लगने देना चाहिए।

v. घायल व्यक्ति की शारीरिक लक्षणों के अनुसार ही प्राथमिक चिकित्सा करनी चाहिए।

vi. घायल व्यक्ति के साथ सहानुभूतिपूर्वक बात करनी चाहिए।

vii. यदि घायल व्यक्ति को रक्तस्त्राव हो तो उसे तुरन्त रोकने के उपाय करने चाहिए।

viii. यदि दुर्घटनाग्रस्त व्यक्ति मूर्छित हो गया तो उसके मुंह पर पानी की छीटें मारने चाहिए और आवश्यकतानुसार चूना और नौशादर मिलाकर सूंघाना चाहिए।

ix. यदि दुर्घटनाग्रस्त व्यक्ति का कोई अंग छिल गया हो या कट-फट गया तो उस पर टिंचर आयोडिन या आवश्यकतानुसार कोई अन्य दवाई लगाकर और डाक्टरी रूई के साथ पट्टी बांध देनी चाहिए।

x. यदि दुर्घटना अधिक बड़ी हो गई हो तो घायल व्यक्ति को तुरंत अस्पताल भेजने का प्रबंध करना चाहिए।

दुर्घटनायें और प्राथमिक चिकित्सा:

a. घाव होना:

दुर्घटनाग्रस्त व्यक्ति को यदि चोट लगने या कटने के कारण घाव हो गया हो तो सबसे पहले खून रोकने का उपाय करना चाहिये। इसके लिये गुनगुने पानी में किसी कीटाणुरोधक दवा को मिलाकर घाव को धो देना चाहिए और उसे डाक्टरी रूई से साफ करने के बाद घाव पर बोरिक लिंट भिगोकर लगा देना चाहिए और पट्टी बांध देनी चाहिये।

b. खून बहना:

चोट लगने या कटने के कारण यदि खून बह रहा हो तो खून निकलने वाले स्थान पर ठंडे पानी की पट्टी या बर्फ रखने से खून रुक जाता है। यदि खून बाहरी घाव से बह रहा हो तो उस स्थान का दबा देने से खून को रोका जा सकता है।

c. मोच आना:

दुर्घटना के कारण यदि हाथ या पैर पर मोच आ जाये तो बड़ी पीड़ा होती है, जोड़ पर सूजन आ जाती है, जोड़ जकड़ जाता है और उसकी हरकत बंद हो जाती है। इसके लिये, ठंडे या गर्म पानी की पट्टियां बारी-बारी से लगभग 5-5 मिनट तक रखनी चाहिए।

d. जलना और झुलसना:

आग या किसी गर्म वस्तु को छू जाने, किसी रस्सी या वस्तु से रगड़ने और तेजाब से जलने को जलना कहते हैं। किसी तरल पदार्थ से जलने को झुलसना कहते हैं। इन दोनों के लक्षण और उपचार प्रायः एक जैसे होते हैं।

जलने और झुलसने से खाल सुर्ख लाल हो जाती है, छाले पड़ जाते हैं और चमड़ी भी उतर सकती है। कभी-कभी जलने और झुलसने वाले स्थान से खून और पानी निकलता है। इसके उपचार के लिए यदि प्रभावित स्थान पर कोई कपड़ा चिपका हुआ हो तो उसे उतार देना चाहिए और जले हुए स्थान पर साफ कपड़ा या डाक्टरी रुई रख कर उसे ढक देना चाहिए।

प्रभावित स्थान पर कोई एन्टीसेप्टिक मरहम लगानी चाहिए। तेल और चूने के पानी को बराबर भाग में लगाने से भी आराम आता है। इसके अतिरिक्त अंडे की सफेदी का लेप भी बहुत लाभदायक होता है। जलने और झुलसने के कारण यदि छाले पड़ जाये तो उन्हें कभी भी फोड़ना नहीं चाहिए और जले हुए स्थान को हवा से बचाना चाहिए।

e. आँख में किसी वस्तु का पड़ना:

आँख में कोई कण या तिनका चला जाये तो बहुत कष्ट होता है। कभी-कभी इससे आँख में घाव भी हो जाता है। जिस आँख में कण वगैरा पड़ जाये उसे कभी भी मलना नहीं चाहिए बल्कि दूसरी आँख को मलना चाहिए जिससे पहली वाली आँख में पानी आ जायेगा और कण निकल जायेगा।

यदि कोई कण वगैरा आँख की ऊपरी पलक में है तो उसे नीचे वाली पलक पर दो या तीन बार चढ़ाना चाहिए। यदि ऊपरी पलक से कण न निकले तो दियास्साई का सहारा देकर ऊपरी पलक को पलट देना चाहिए। और किसी साफ कपड़े के गीले कोने से कण को निकाल देना

चाहिए। यदि कोई कण वगैरा आँख की निचली पलक में हो तो उसे नीचे की ओर पलट कर किसी साफ कपड़े के गीले कोने से निकाला जा सकता है। यदि कोई नुकीली वस्तु आँख में पड़ जाये तो उसे छेड़ना नहीं चाहियें और तुरंत डाक्टर की सहायता लेनी चाहिए। यदि आँख पर सूजन हो तो उसे हल्के गर्म पानी से धोना या सेंकना चाहिए।

f. कुचल जाना:

किसी व्यक्ति के शरीर पर भारी वस्तु गिर जाये या ठोकर लग जाये तो प्रभावित स्थान पर गहरा धब्बा पड़ जाता है और सूजन हो जाती है जिसे कुचल जाना कहते हैं। इसके उपचार के लिए टिंचर आयोडिन लगानी चाहिए। इसके अतिरिक्त पानी और स्प्रिट को मिलाकर रुई को उसमें भिगोकर प्रभावित स्थान पर बांधना चाहिए।

प्राथमिक चिकित्सा किट:

प्राथमिक चिकित्सा किट ऐसे स्थान पर स्थित होनी चाहिए जहां पर आसानी से पहुंचा जा सके। इसमें प्रायः निम्नलिखित सामान्य सामग्री होनी चाहिए- प्राथमिक चिकित्सा पुस्तक; विभिन्न साइजों की स्टेलाइट एडेसिव पट्टियां, विभिन्न साइजों के गोज पैड्स, एडेसिव टेप, टैंगुलर और रोलर पट्टियां, कॉटन का एक रोल, प्लास्टर, कैंची, पैन टार्च, लेटेक्स ग्लोब्स के दो रोल, छोटी चिमटी, सूई, सूखा हुआ तोलिया और साफ सुथरे कपड़े के टुकड़े, एंटिसेप्टिक (सेवलोन या डिटोल), थर्मोमीटर; पैट्रोलियम जैली की ट्यूब; विभिन्न साइजों की सेफ्टी पिनें; साबून वगैरा।

बिना-प्रिस्क्रिपान वाली दवाइयां:

i. दर्द दूर करने वाली एस्पिरिन या पैरासिटामोल

ii. दस्त दूर करने वाली दवाईयां

iii. मधुमक्खी के काटने के लिए एंटी हिस्टामाइन क्रीम

iv. कब्ज दूर करने वाली दवाइयां

Dtech Engineering
Regd Off.: 'Sulochana' Sr No -105, Rajbag Colony, Dhere Banglow, Manjari (BK), Hadapsar, Pune- 412307.
Mob.: +919029101382 / +91 9604333049 / 7020596815
Email ID.: dtepune@gmail.com / dtepanvel@gmail.com

Ref: DTE/STB/001/2020-21 *Date -26.06.2020*

CERTIFICATE OF STABILITY

Form- 1A

(Rule - 3A)

1	Name of the factory	: *M/s. Atul Bioscience Limited.*
2	Village, town & Dist. In which The factory is situated	: *N-37, Additional Ambernath MIDC, Anand Nagar, Ambernath (East), Thane, Maharashtra,421506.*
3	Full postal address of the Factory	: *N-37, Additional Ambernath MIDC, Anand Nagar, Ambernath (East), Thane, Maharashtra,421506.*
4	Name of the occupier of the factory	: *Mr. Prabhakar Chebiyyam*
5	Nature of the manufacturing Process to be carried on in the Factory	: *Manufacturing Process of API (Bulk Drugs)*
6	No. of floors on which Workers will be employed	: *Admin /QC Bldg. Gr +1st +2nd+3rd Floor.* *Plant-I Gr +1st Floor with Mezzanine.* *Plant-II Gr +1st Floor with Mezzanine.* *Plant-III Gr +1st Floor with Mezzanine.* *Plant-IV Gr +1st Floor.* *Warehouse Gr +1st Floor.* *Utility Gr +1st Floor with Mezzanine.* *Boiler House Gr Floor with Mezzanine.* *ZLD Plant Gr +1st +2nd Floor.*

I certify that I have inspected the premises, the plans of which have been approved by the ***Director of Industrial Safety & Health in plan Ref. No. 12170000020372 Dated 18.11.2019*** *and examined the various parts including foundations with special reference to the machinery, plant, etc. that have been installed. I am of the opinion that all the works of engineering construction in the premises are structurally sound and that their stability will not be endangered by their use as a factory/ part of the factory for the Manufacturing Process of API (Bulk Drugs) Products for which the machinery, plant, etc. installed are intended.*

Signature:

Shreeshail.P.Gaikwad
Structural Engineer
LIC No. LSE/0004/15-16
AT- Mudre(B), Post- Karjat
Tal-Karjat Dist- Raigad

Date: 26.06.2020

Name: S. P. Gaikwad

Qualification: B.E. (Civil), M.E (Structure), F.I.V, LMISTE

o/c

Atul

Atul Bioscience Ltd

Plot N-37, Additional Ambernath Industrial Area, MIDC, Anand Nagar
MMR Zone-II, Ambernath (East) 421 506, Maharashtra, India
pharma@atul.co.in | www.atulbio.co.in

Date: 27.05.2020

To,

The Chief Engineer,

MIDC, Additional industrial area,

Anand Nagar, Ambernath (East),

Maharashtra – 421506

Sub: Submission of CER (Corporate Environment Responsibility) plan.

Respected Sir,

We, M/s Atul Bioscience Limited, Plot No. N-37, Additional Industrial area, MIDC, Ambernath, Dist – Thane, Maharashtra, submit here CER plan for your information please.

Thanking You,

For Atul Bioscience Limited, Ambernath

Kailas

(Mr. Kailas Bharambe)

GM – Manufacturing and Technology

Enclosed: CER Plan – M/s Atul Bioscience Limited, Ambernath, Thane, Maharashtra.

Marketing office: Lotus Corporate Park, C Wing, Floor 15, Western Express Highway, Goregaon (East), Mumbai 400 063 Maharashtra, India | (+91 22) 62505200
Registered office: E-12, East Site, Atul 396 020, Gujarat, India
CIN: U24230GJ1997PLC032369

27/05/2020
Clerk to Deputy Engineer
M.I.D.C. Sub Division,
Addl. Ambernath

CER (Corporate Environment Responsibility) Plan

Name of the project	Atul Bioscience Limited Ambernath
Address of the project	Plot No: N-37, Additional Industrial Area, MIDC, Anand nagar, Ambernath (east), Dist - Thane, Maharashtra, Pin - 421506
Type of project	Expansion (with change in product mix)
Existing project cost	42.31 Crores
Cost of expansion	43.69 Crores
Cost of project for CER	0.43 Crores (1% of expansion cost)

SR. NO.	CER ACTIVITY	Details of CER activity	Place of Implementation	Total Amount (Rs.)	1st Year (Rs)	2nd year (Rs)	3rd Year (Rs)	4th Year (Rs)	5th Year (Rs)
1	Education & Awareness	1. Training & awareness programs will be arranged for the nearby schools and industrial associations. 2. Distribution / Display of environment awareness posters to schools, Fire station colony, small scale industries.	Ambernath / Badlapur	8,00,000	1,00,000	1,50,000	1,50,000	1,50,000	2,50,000
2	Distribution of Eco friendly gazettes	Environment friendly items like cotton bags, LED lamps, solar lamps etc will be distributed in nearby schools and villages.	Ambernath	5,25,000	-	1,00,000	1,25,000	1,50,000	1,50,000
3	Waste storage facilities	Dedicated waste storage bins, containers will be provided in the vicinity of the site, schools and villages.	Ambernath	8,00,000	1,00,000	1,00,000	1,50,000	2,00,000	2,50,000
4	Facilities	Up-gradation of School infrastructure - water storage tank, stand post for drinking water, purified water & Toilet block	Ambernath / Badlapur	5,25,000	1,00,000	-	1,25,000	1,50,000	1,50,000
5	Sanitation	Installation of mobile toilet facility in and around the site	Vicinity of the site	3,50,000	-	50,000	75,000	1,00,000	1,25,000
6	Avenue plantation	1. Plantation will be done at divider of both side roads adjacent to site about 1 km. 2. Green circle will be developed and maintained at road junction near the site.	Vicinity of the site	13,00,000	1,50,000	2,00,000	2,50,000	3,00,000	4,00,000
			Total	43,00,000	4,50,000	6,00,000	8,75,000	10,50,000	13,25,000

O/C

Atul

Atul Bioscience Ltd

Plot N-37, Additional Ambernath Industrial Area, MIDC, Anand Nagar
MMR Zone-II, Ambernath (East) 421 506, Maharashtra, India
pharma@atul.co.in | www.atulbio.co.in

May 31, 2021

To,

The District Collector,

Collector Office, Court naka,

Thane (west), Maharashtra – 400601

Sub: Submission of CER (Corporate Environment Responsibility) plan.

Environment clearance ref: SIAIMH/IND2/152225/2020 dated 26-06-2020

We, M/s Atul Bioscience Limited, Plot No. N-37, Additional Industrial area, MIDC, Ambernath, Dist – Thane, Maharashtra, submit here CER plan as per the condition mentioned in above mentioned environment clearance.

Thanking You,

For Atul Bioscience Limited, Ambernath

Kailas

(Mr. Kailas Bharambe)

GM – Manufacturing and Technology

Enclosed: CER Plan – M/s Atul Bioscience Limited, Ambernath, Thane, Maharashtra.

31/05/2021
आवक लिपीक
जिल्हाधिकारी कार्यालय ठाणे

CER (Corporate Environment Responsibility) Plan

Name of the project	Atul Bioscience Limited Ambernath
Address of the project	Plot No: N-37, Additional Industrial Area, MIDC, Anand nagar, Ambernath (east), Dist - Thane, Maharashtra, Pin - 421506
Type of project	Expansion (with change in product mix)
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Cost of expansion	43.69 Crores
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3	Waste storage facilities	Dedicated waste storage bins, containers will be provided in the vicinity of the site, schools and villages.	Ambernath	8,00,000	1,00,000	1,00,000	1,50,000	2,00,000	2,50,000
4	Facilities	Up-gradation of School infrastructure - water storage tank, stand post for drinking water, purified water & Toilet block	Ambernath / Badlapur	5,25,000	1,00,000	-	1,25,000	1,50,000	1,50,000
5	Sanitation	Installation of mobile toliet facility in and around the site	Vicinity of the site	3,50,000	-	50,000	75,000	1,00,000	1,25,000
6	Avenue plantation	1. Plantation will be done at divider of both side roads adjacent to site about 1 km. 2. Green circle will be developed and maintained at road junction near the site.	Vicinity of the site	13,00,000	1,50,000	2,00,000	2,50,000	3,00,000	4,00,000
			Total	43,00,000	4,50,000	6,00,000	8,75,000	10,50,000	13,25,000

MAHARASHTRA INDUSTRIAL DEVELOPMENT CORPORATION
(A Government of Maharashtra Undertaking)

No. **EE/AMB/A-06411**/of 2020,
Office of the Executive Engineer,
MIDC, (Civil) Division Ambernath.
Date: - **06/01/2020**

To,
M/s. Atul Bioscience Ltd.,
Plot No. **N-37,**
MIDC Industrial Area,
Addl. Ambernath.

Sub :- Factory Building Plan Approval for Plot No. N-37 in Addl. Ambernath Indl. Area.

Ref :- Online application vide **SWC/7/521/20191024/664882 dt.24/10/2019.**

Dear Sir,

You have submitted application for factory to Building Plan approval for Plot No. N-37, in Addl. Ambernath Indl. Area.

Your application is examined and following approvals are hereby granted…

Building Plan Approval

Since you have paid following ……

I) Development charges, amounting to **Rs. 71,920.64** vide Receipt No.**GL 20497169 dt. 27/12/2019 paid online.**

II) Scrutiny fees, amounting to **Rs. 3,607.92** vide receipt No**. GL20398929 dt.06/11/2019, paid online.**

1) The set of fresh plans, received from you vide your letter cited above, is hereby approved subject to acceptance and follow up of following conditions by you.

2) You had submitted plans and drawings for **355.08Sqm** fresh and **total 5248.35 Sqm** of plinth area for the plot area of **24558.00 Sqm,** at present this office has approved plans for **901.98 Sqm** fresh and total upto date **10998.55 Sqm**. of built up area. This office has now approved **03 Nos.** of drawings details of which are mentioned on the accompanying statement.

A. In case of approval to the modified plans, the earlier approval to the building plans granted vide letter No. **--------- dt. ---------** by this office is treated as cancelled. The drawings approved now supersede previously approved drawings. You are requested to return the cancelled plans to this office for cancellation and record.

B.The drawings submitted now includes existing structures/proposed structures, which were not approved previously. Present approval along with the previously approved plans vide letter No. **EE/AMB/N-37/E-29337/of 2017 dt. 04/12/2017** and occupancy certificate issued vide letter No. **MIDC/SPA/EE/AMB/D-94657 dt. 28/11/2018.** from the office of the Executive Engineer is to be treated as combined approval..

3) This building plan approval is with respect to planning point of view and in accordance to MIDC's Development Control Rules, since MIDC is Special Planning Authority (SPA) for this Area. In addition, to this approval the plot holder shall obtain approval for plans from other requisite authorities as per necessity, such as from :-

   i) Industrial Safety and Health Department, Govt of Maharashtra.

   ii) Explosive Department, Govt. of India.

   iii) Food & Drugs Department, Govt. of Maharashtra.

4) The plot holder shall obtain prior Environment Clearance Certificate before Commencement of any construction activities, if applicable to their project as per the notification issued by MoEF, Govt. of India vide Notification issued by MoEF, New Delhi dtd.14. 09. 2006 and its subsequent amendments'.

5) You are requested to submit certified copies of above approvals from the concerned authorities to this office, in triplicate before any work is started OR within three months from the date of issue of this letter whichever is earlier.

6) For the sanitary block, overhead water storage tank shall be provided at the rate of 500 liter per W.C. or Urinal.

7) For necessary approach road to the plot from the edges of MIDC. Road, 900 mm dia CD works or a slab drain, as may be approved by the Executive Engineer, shall be provided.

8) Temporary structures shall not be allowed except to during construction period (after obtaining prior approval from Executive Engineer.) and the same shall be demolished immediately after building work is completed.

9) During the period of construction, stacking of materials shall be done only in the area of plot allotted. In no case, material be stacked along MIDC, road land width/open plot area.

10) The marks demarcating boundary of the plot shall be preserved properly and kept in good condition and shown to department staff as and when required.

11) No tube well, bore well or open well shall be dug.

12) Plans for any future additions, alterations or extensions will have to be get approved from this office, as well as from concerned competent authority.

13) The present approval to the plans does not pertain to approval to the structural design, RCC members, foundations etc. It is only locational approval to the layout of various structures & floors with reference to the plot, in accordance to MIDC DCR.

14) In case any power line is passing through the plot, the plot holder should approach MSEDCL and obtain their letter specifying the vertical and horizontal clearance to be left and plan his structures accordingly.

15) The compound wall gate should open inside the plot and if the plot is facing on two or more sides of the road then gate shall be located at least 15 m. away from the corner of junction or roads.

16) Plot holders shall make his own arrangement for 24 hours of storage of water, as uninterrupted water supply cannot be guaranteed.

17) In case, water stream/ nallah is flowing through the allotted plot, the plot holder has to ensure that the maximum quantity of rain water that flows at the point of entry of stream is allowed to flow uninterruptedly through the plot and upto the point of out flow of the original stream. The points of entry and exit of the natural stream shall not be changed. The detailed plans section and design for allowing maximum expected discharge of rain water through the plot have to be furnished to this office and no filling of plot and diversion of nalla is allowed unless a written permission is obtained from the Executive Engineer/SPA.

18) This permission stands cancelled, if no construction work is started within **12** (Twelve) months from the date of issue of this letter or the date given in the agreement to lease to start construction work whichever is earlier. The date of starting construction work and date of completion shall be informed to the Executive Engineer in charge immediately. The construction shall be completed within the given stipulated time limit as per the lease agreement.

19) Breach of any rules stipulated will render the plot –holder liable for action as provided in MIDC., Act 1961 (II of 1962 and regulations made there under) and also terms of lease agreement and schedule of penalties prescribed by the Corporation for this purpose.

20) This office is empowered to add, amend, vary or rescind any provisions of Building Rules & regulations from time to time as it may deem fit, and the plot-holder has to be abide by these rules and regulations.

21) As soon as the building work is completed, the plot-holder shall approach to the concerned Deputy Engineer/Executive Engineer, to get the work verified and building shall not be occupied unless building completion certificate and occupancy certificate is obtained from this office.

22) **This approval is subject to permission of competent authority under Urban Land (Ceiling & Regulations) Act. 1976.**

23) The plot-holder within a period of <u>one year</u> from the date of agreement to lease, shall plant at least one tree per <u>100 Sq. m</u>. of plot area along the periphery of the plot. In addition, he shall also plant one tree per 15 m. on the frontage of road or part thereof inside the plot and maintain the trees so planted in good condition throughout the period of agreement to lease.

24) The basement if provided is to be used only for storage purpose. No. manufacturing activates are allowed, similarly toilet is not allowed at the basements.

25) The Name and plot number shall be displayed at main entrance of plot.

26) The plot holder shall construct ETP as per consent of MPCB & treat & dispose effluent as per MPCB Consent to establish & operate, if applicable with prior approval of MIDC SPA.

27) The plot holder shall ensure that, the foundation of the building / structure shall rest on the firm strata and not on made up / filled ground. The Architect and structural consultant appointed by the owner will be solely responsible for this condition.

28) MIDC issues permission for development of plots which are situated on river banks, adhering to the contents of the River Policy dt. 13th July 2009 and as per category of Industries. PIL No. 17 of 2011 is filed against this policy at the Hon'ble High Court Bombay. It is clarified that, grant of any permission by the MIDC to any new industry in industrial estate situated on river banks will be subject to any further orders which may be passed by Hon'ble High Court, Bombay under PIL No. 17 of 2011.

29) ~~As per the Chief Fire Officer, MIDC's circular vide No. A-04499 dt. 05.01.2015, you have to provide **4 Nos** of 5 Kg capacity of DCP fire extinguishers (ABC Type) following IS:15683 within the proposed factory building at prominent locations and the same shall be always maintained in good operating condition as per the IS code.~~

30) Since you have consumed **49.80 %** of FSI as per the approved plan, you are requested to utilize remaining FSI as per agreement to lease.

Undersigned reserves right to amend any additional recommendations deemed fit during the final inspection due to the statuary provision amended from time to time and in the interest of the protection of the company.

You are hereby requested to go through above approvals carefully with the above conditions, and take necessary actions accordingly.

Thanking you,

Your's faithfully,

Rajaram G Rathod

Digitally signed by Rajaram G Rathod
DN: c=IN, o=Government Of Maharashtra, ou=Maharashtra Industrial Development Corporation, postalCode=421501, st=Maharashtra, 2.5.4.20=26be943da243ca28bca97cd95fec00a5639e239b2665693fdb4fcd0e71d0312d, 2.5.4.45=0321008 6F1805F9BC5A4E71ACB2DE0C27D4D4FB914FBE0455B0ADB3C04B93CEBCEC29D, serialNumber=9cb0419b2eb02b98571620f5aa9f985e20611fe7257e9a32d8569d9314806113, cn=Rajaram G Rathod
Date: 2020.01.06 14:32:29 +05'30'

Executive Engineer
Special Planning Authority
M.I.D.C., Civil Division
Ambernath.

DA:- 1. One Statement showing details of drawings and built up area approved.
2. Copy of approved drawings/plans.

ETP PROCESS DESCRIPTION

Plant Capacity: 110 CMD

Process Description:

1. **Bar screen:** It is provided for the removal of fine and course waste particles from the effluent.
2. **Oil and Grease Trap:** The effluent from the Plant enters through oil & grease traps, which arrests the heavy sludge, oil & grease .The oil & grease being light material floats above and it is separated by using oil skimmer.
3. **Collection Tank (30 KL):** The effluent from oil & grease traps enters the collection tank. This tank is used as effluent holding.
4. **Equalization Tank (30 KL) :** In Equalization tank the effluent is homogenized and Neutralized to pH 7.00 with the help of Caustic or HCl. Diffusers are installed for mixing the contents.
5. **DAF (Capacity 110 KLD):** Dissolved Air Flotation (DAF) with Pipe Flocculator process is used for removal of suspended solids. It is a gravity separation process whereby the separation of two phases is achieved by increasing the specific gravity difference of the two phases. This is achieved by attaching micro air bubbles, brought about by saturating water with air under pressure, and then expanding the water stream through valves to atmospheric pressure. These micro bubbles nucleate onto the solid particles to be separated, thus lowering the specific gravity and allowing contaminants to rise to the surface.
6. **Aeration Tank- 1 (Capacity 200 KL) & 2 (Capacity 80 KL):** It consists of the Aerobic Bio-reactor is a biological treatment unit in which the dissolved organic matter is destroyed by micro-organisms in the presence of oxygen. The treatment process employed in the bio-reactor is

activated sludge process. Compressed air is provided by Twin lobe blowers through air diffusers installed in the aeration tank. Air diffusers are tubular membrane diffusers that transfer very fine bubbles of air into the contents of the aeration tank. Oxygen present in the air is easily utilized by micro-organisms for their survival and degradation of the organic matter present in the effluent. The activated sludge process is named so, because there is a production of an activated mass of microorganisms capable of stabilizing a waste aerobically. Organic waste is introduced into a reactor, where an aerobic bacterial culture is maintained in suspension. The organic matter is decomposed by the aerobic bacteria with the help of oxygen supplied by the Air Blowers. The aerobic condition is maintained by using either diffused which helps to maintain the mixed liquor in a completely mixed regime.

7. **MBR (Membrane Bioreactor) Capacity – 110 KLD:** The MBR is essentially a high MLSS (10,000-20,000 mg TSS/l) activated sludge process with an integral solid liquid separation mechanism, the membrane unit. Each standard membrane unit is comprised of two separate sections, a membrane case and a diffuser case. The membrane case contains a number of manifold flat-panel membrane cartridges with an average porosity of 0.4 microns and an effective porosity of 0.1 microns. The bottom diffuser case supports the membrane case and houses a coarse-bubble diffuser. The permeate stream from MBR will be sent for further treatment (UF & RO). RAS pump is provided to recirculate the concentrated MLSS back to aeration. The excess sludge is sent to sludge holding tank.
8. **Filter Press:** The sludge collected is filtered through filter press and clear water is taken back into feed tank (Equalization Tank). Dried sludge from filter press will

be sent to CHWTSDF (Mumbai waste management limited, Taloja)

9. **Pressure sand filter (PSF):** Treated water or effluent from the treated water tank is fed to PSF. It is ideal for filtration of water having very fine suspended matter like mud, rust particles and biological growth. PSF is a vessel constructed of welded mild steel and provided with manhole with cover / top and bottom flanged covers, supports, raw water distributor, under drain collection and backwash water jet system. Treated water flows downwards through the filter bed, and the turbidity and Suspended matter is retained on the sand surface. Filtered water is evenly collected by an under drain system in the bottom of the vessel and flows through the outlet to service. At normal flow-rates a clean filter bed presents little resistance to the passage of water but the suspended matter is removed from the water, steady rise in the loss of head occurs across the bed. Cleaning of filter bed is effected by passing a reverse upward flow of water through the filter for approximately 3 to 5 minutes.
10. **Activated Carbon filter (ACF):** Treated water will be transferred to activated carbon filter. Activated carbon filter consists of a vertical pressure vessel fitted with a set of frontal pipe and valves, different type of filtration media will be supported by layers of graded under bed consisting of pebbles and gravels, a top distributor to distribute the incoming water uniformly throughout the cross section of the filter and an under drain system to collect filtered water. This will be pressurized filter with backwash arrangement.
11. **Ultra filtration (UF):** UF is TSS removal and disinfection membrane. UF membranes are porous and allow only coarser solutes (macromolecules) to be rejected. All types of microorganisms as viruses and bacteria and all types of

particles can be removed by this process. The filtered water will be passed through a UF system before entering the RO plant. The Ultra filtration is considered as a pre-treatment to RO system this will reduce scaling and fouling of RO system. UF system maintains the output water SDI < 3 and removes the colloidal particles. To maintain UF flux CEB system will be provided with periodic backwash and Chemical Enhanced Backwash. Operation of UF system will be automatic and PLC based.

12. **Reverse Osmosis (Two stages, Capacity 110 KLD):** Reverse osmosis (RO) is a most commonly used membrane filtration method that removes many types of large molecules and ions from effluents by applying pressure to the effluents when it is on one side of a selective membrane. RO is used to remove specific dissolved organic constituents remaining after advanced treatment of influent with different pre-filters. RO system can operate at very high efficiency with respect to TDS. In addition, it also removes residual organic molecules, turbidity, bacteria and viruses. The feed water shall be then pumped by means of a RO Feed pump & a high pressure pump through the MCF followed by membrane assembly. With required pressure and flow, water passes through RO modules. Permeate from the system is collected in a permeate water storage tank & balance goes to the reject stream which is further treated or is collected in a reject water storage tank. Anti-scalant, SMBS and Acid / Alkali dosing systems are provided for proper functioning of RO system. For cleaning of RO membranes CIP system is included
13. **Multi-effect Evaporator (Two stage, Capacity – 22 KLD):** The MEE is a multi-stage thermal separation system. This compact unit combines a heat exchanger, an external separator, and a vacuum system with a condenser for vapors generated. It is designed to operate as a forced

circulation, suppressed boiling evaporator. The flash evaporator is a forced circulation suppressed boiling evaporator utilizing a shell and tube heat exchanger to heat the product to above its boiling temperature. Boiling is prevented from taking place on the heat transfer area by applying a backpressure to the outlet and the product is then flashed into a separator. The flash vapours that result are condensed in a surface condenser and the concentrated product is pumped out of the separator. For products, which tend to crystallize during concentration or those that contain a high percentage of suspended solids, flash evaporation is the most suitable method.

By using liquid static head above the heat exchanger or a special orifice piece in the discharge line, vaporization is arrested until the product liquor flashes into the separator. Any crystallization then occurs and a suspended slurry results. High liquid velocity flow combined with induced turbulence deters scaling on heat transfer surfaces, and promotes longer production runs. The solution with crystals is taken to centrifuge for salt separation and the salts are reused in the process. A part of mother liquor separated from the Centrifuge is circulated back to appropriate stage of MEE. Remaining part of mother liquor is evaporated using Agitated Thin Film Dryer (ATFD) to prevent the build-up of COD and TSS in the MEE system by the means of recirculated mother liquor.

14. **ATFD (Capacity 11 KLD):** ATFD is the ideal apparatus for continuous processing of concentrated material to dry solids. ATFD is consist of cylindrical, vertical body with heating jacket and a rotor inside of the shell which is equipped with rows and pendulum blades all over the length of the dryer. The hinged blades spread the wet feed

product in a thin film over the heated wall. The turbulence increases as the product passes through the clearance before entering calming zone situated behind the blades as the heat will transfer from jacket to main shell under the smooth agitation water/solvent will evaporate and liquid will convert to slurry, to cake or to dry powder or flex. The vapours produced rise upward, counter-currently to the liquid and pass through Cyclone separator mounted of vapour outlet of ATFD. Further these vapours will be condensed in condenser and recovered as condensate. System will be operated under vacuum for temperature sensitive products and atmospheric condition for normal drying.

Effluent Data			
Parameters	UOM	Inlet	Outlet
pH		< 4	6.5-8.5
TSS	ppm	700	< 100
TDS	ppm	10000	< 500
COD	ppm	10000	< 250
BOD	ppm	3000	< 100
Oil & grease	ppm	10	< 10

Atul Bioscience Limited, Ambernath

ETP - ZLD EQUIPMENT DETAILS

SR. NO.	NAME OF EQUIPMENT	Specification	CAPACITY	UOM	QTY
1	Bar screen Chamber	Suitable Bar screen Chamber Spacing between bars: 10 mm. MOC: SS 304	2		1
2	Oil skimmer		2		1
3	Collection Tank	RCC	30	KL	1
4	Equilisation tank	RCC	30	KL	1
5	Effluent transfer pump	Type : Horizontal End Suction Back Pull out pump with single mechanical seal with API Plan II Casing : CI Impeller : SS 316 Shaft ; AISI 431 Shaft Sleeve : AISI 316 Body : SS 304 Impeller : SS 304	Cap.:5.5 m3/hr @ 10.0 m head		2
6	Air Blower for Aeration Tank+ MBR with VFD	Type : Horizontal End Suction Back Pull out pump with single mechanical seal with API Plan II Casing : CI Impeller : SS 316 Shaft ; AISI 431 Shaft Sleeve : AISI 316	950.0 cu.m/hr @ 0.55 bar		2
7	Dissolved Air Flotation Unit	DAF Suitable for handing 5.5 m3/hr flow with 700 ppm maximum TSS with Pipe Flocculator and recirculation pump as per OEM	110	KL	1
8	Sludge recirculation Pumps	Type : Horizontal End Suction Back Pull out pump with single mechanical seal with API Plan II Casing : CI Impeller : SS 316 Shaft ; AISI 431 Shaft Sleeve : AISI 316	22.0 m3/hr @ 10 m head	m3/hr	2
9	Permeate Pumps with VFD	Type : Horizontal End Suction Back Pull out pump with single mechanical seal with API Plan II Casing : CI Impeller : SS 316 Shaft ; AISI 431	4 - 17 m3/hr @ 10.0m head		2
10	Filter Press Feed pump for Chemical Sludge	Type : Screw with suitable TEFC motor 415 V, 3ph, 50 Hz, class F insulation Body : CI	2.0 m3/hr @ 20.0m head		2
11	Filter Press	Sachin	2.0 Cu.m/hr		1

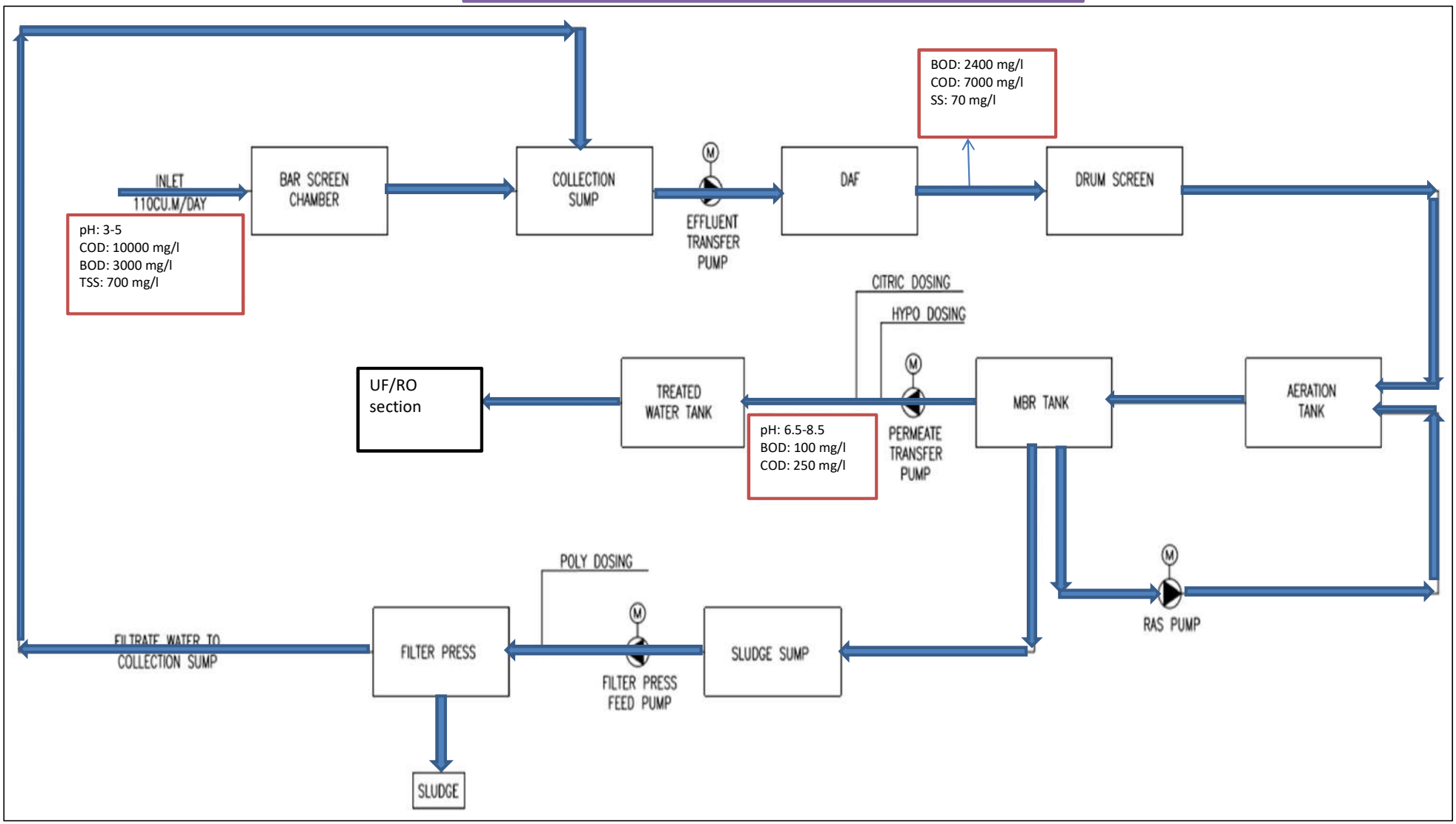
SR. NO.	NAME OF EQUIPMENT	Specification	CAPACITY	UOM	QTY
12	Air Diffusers in Aeration tank	Aeration tank MOC : Silicon TYPE : Membrane Type			1 Lot
13	Alum Dosing Pump for DAF		5 LPH @0.4 bar		1
14	Alum Dosing tank		200 Liter, HDPE		1
15	Agitator for alum dosing tank	With drive NORD Agitator: SS 304			1
16	Poly Dosing Pump for DAF		5LPH @0.4 bar		1
17	Poly Dosing tank		100 Liter, HDPE		
18	Agitator for Poly dosing tank	With drive NORD Agitator: SS 304			1
19	Citric Acid Dosing Pump				1
20	Citric Acid Dosing Tank		500 Liter, HDPE		1
21	Agitator for Citric Acid dosing tank	With drive NORD Agitator: SS 304			1
22	Hypo Dosing Pump				1
23	DWPE Dosing Pump		100LPH @0.4 bar		1
24	DWPE Dosing Tank		500 Liter, HDPE		1
25	Agitator for DWPE dosing tank	With drive NORD Agitator: SS 304			1
26	Aeration Tank -1	RCC	200 KL		1
27	Aeration Tank -2	RCC	80 KL		1
28	MBR Back pulse Tank		1500 Liter, HDPE		1
29	MBR tank	MS Epoxy	12 Cu.m		1
30	Membrane Modules with Traverse, connection Kit	PVDF, UF, 0.04 micron, outside in hollow fiber Area – @ 550 m2			1 Lot
31	Tube settler Feed pump		5 (m3/hr)25 (m head)		2
32	Flash Mixer TANK	MSFRP	0.3 * 0.2* (1.5 +0.5) (L*B * (SWD + FB) (M))		1
33	Agitator	SS 316			1
34	Flocculator TANK	MSFRP	1.2 * 1.5* (1 +0.5) (L*B * (SWD + FB) (M))		1
35	Agitator	SS314			1
36	Tube Settler TANK With Media	MSFRP	2* (2.5 +0.5) (Dia * (SWD + FB) (M))		1
37	Dosing pump - PAC	PP	5 (LPH @ 2.5 Kg/cm2)		2
38	Dosing Tank - PAC	HDPE	200 (Litres)		1
39	Dosing Tank Agitator - Coagulant	SS 316	200 (Litres)		10
40	Dosing pump - Poly	PP	5 (LPH @ 2.5 Kg/cm2)		2
41	Dosing Tank - Poly	HDPE	100 (Litres)		1
42	Dosing Tank Agitator - Poly	SS316	100 (Litres)		1
43	Fllter				
44	Filter Feed tank	HDPE	10 M3		1
45	Feed pump	SS316	5 (M3/Hr)25 (m head)		2

SR. NO.	NAME OF EQUIPMENT	Specification	CAPACITY	UOM	QTY
46	PSF	FRP	0.7 M DIA * 2.1 M HEIGHT		1
47	ACF	FRP	1 M DIA * 1.5 M HEIGHT		1
	ULTRAFILTRATION (UF) SYSTEM				
48	UF Feed Tank	HDPE	10 M3		1
49	UF Feed Pumps with motor	SS316	5 (m3/hr)		2
50	Basket Strainer	SS 316	4 (M3/Hr.)		1
51	UF Skids	SS304	1		1
52	UF Modules	PVDF	HYDRACAPMAX80		1
53	RC Tank	HDPE	200 (Litres)		1
54	RC Tank - Agitator	SS316	200 (Litres)		1
55	RC pump with motor	SS316	4.5 (m3/hr)		2
56	Air blower - UF Skid	CI	13 (m3/hr) 0.7 (kg/cm2)		2
57	Dosing pump - NaOH	PP	6 (LPH @ 2.5 Kg/cm2)		2
58	Dosing Tank - NaOH	HDPE	100 (Litres)		1
59	Dosing Tank Agitator - NaOH	SS316	100 (Litres)		1
60	Dosing pump - HCl	PP	20 (LPH @ 2.5 Kg/cm2)		2
61	Dosing Tank - HCl	HDPE	100 (Litres)		1
62	Dosing pump - NaOCl	PP	6 (LPH @ 2.5 Kg/cm2)		2
63	Dosing Tank - NaOCl	HDPE	100 (Litres)		1
64	UF Permeate Storage Tank / RO Feed Tank	HDPE	10 M3		1
	REVERSE OSMOSIS (RO) SYSTEM				
65	RO - I Feed Pumps with motor	SS316	5 (m3/hr) 25 (m head)		2
66	MCF for RO	SS 316	4 (m3/hr)		2
67	Cartridges for MCF of RO-I	PP	2 (No.)		2
68	Dosing Pump - Antiscalant	PP	3 (LPH @ 2.5 Kg/cm2)		2
69	Dosing Tank - Antiscalant	HDPE	100 (Litres)		1
70	Dosing Tank - Agitator - Antiscalant	SS 316	100 (Litres)		1
71	Dosing pump - SMBS	PP	3 (LPH @ 2.5 Kg/cm2)		2
72	Dosing Tank - SMBS	HDPE	100 (Litres)		1
73	Dosing Tank - Agitator - SMBS	SS 316	100 (Litres)		1
74	Dosing Pump - HCl	PP	3 (LPH @ 2.5 Kg/cm2)		2
75	Dosing Tank - HCl	HDPE	100 (Litres)		1
76	RO-I High Pressure Pumps with motor	SS316	4 (m3/hr)280 (M head)		2
77	RO-I Skids	SS 304			1
78	RO Membranes	Polyamide	SWCLD 4040		18
79	RO Pressure Vessels	FRP			3

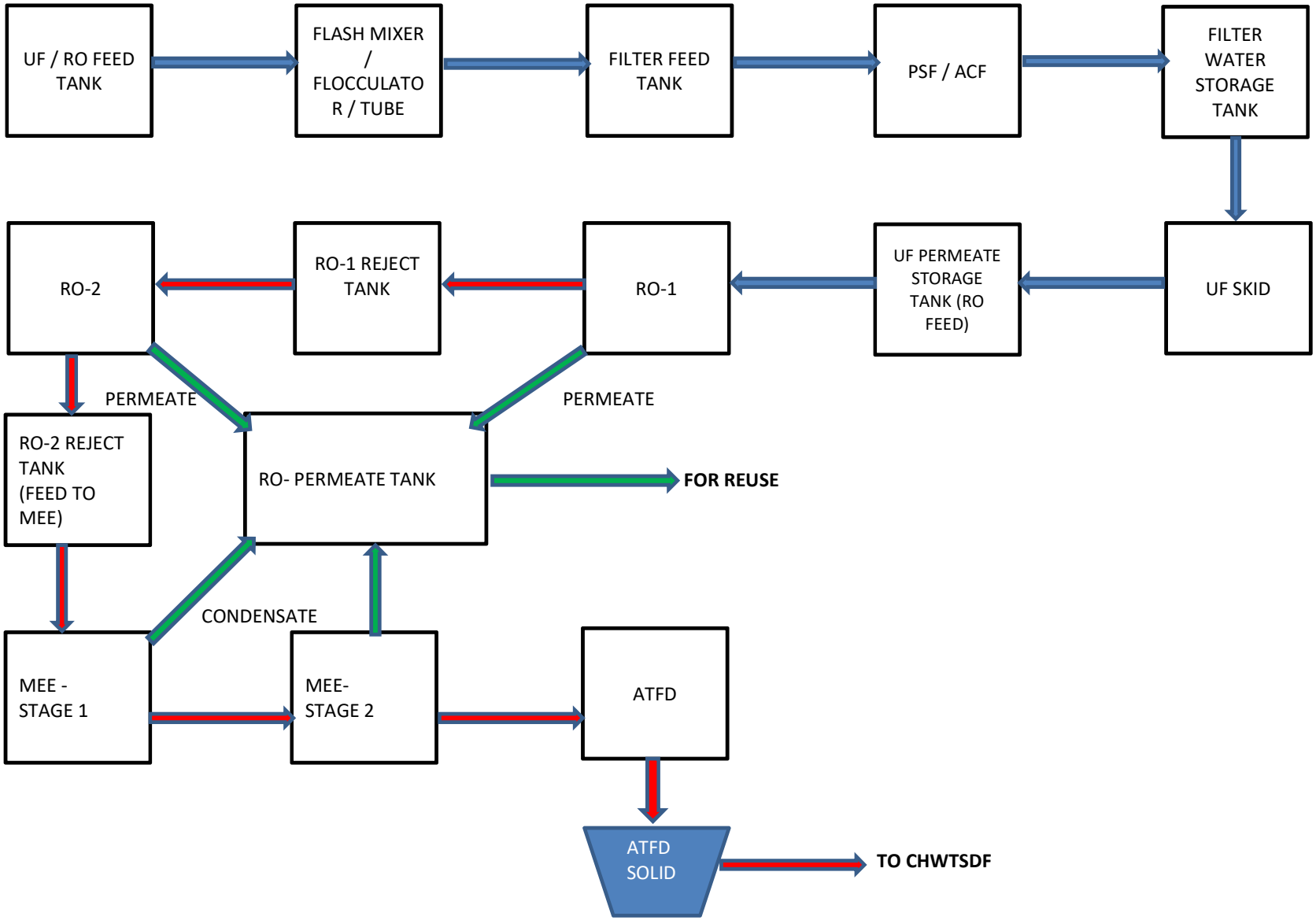
SR. NO.	NAME OF EQUIPMENT	Specification	CAPACITY	UOM	QTY
80	Victaulic Couplings	SS 316			1 Lot
81	RO-I Reject Storage Tank	RCC	DDE		1
82	RO - II Feed Pumps with motor	SS316	1.5 (m3/hr)25 (m head)		2
83	MCF for RO	SS 316	1.5 (m3/hr)		2
84	Cartridges for MCF of RO-II	PP	1 (No.)		2
85	Dosing Pump - Antiscalant	PP	3 (LPH @ 2.5 Kg/cm2)		2
86	Dosing Tank - Antiscalant	HDPE	100 (Litres)		1
87	Dosing Tank - Agitator - Antiscalant	SS 316	100 (Litres)		1
88	Dosing Pump - HCl	PP	3 (LPH @ 2.5 Kg/cm2)		2
89	Dosing Tank - HCl	HDPE	100 (Litres)		1
90	RO-II High Pressure Pumps with motor	SS316	1.4 (m3/hr)500 (M head)		2
91	RO-II Skids	SS 304			1
92	RO Membranes	Polyamide	SWCLD 4040		6
93	RO Pressure Vessels	FRP			1
94	Victaulic Couplings	SS 316			1Lot
95	CIP Tank	HDPE	1000 (Litres)		1
96	CIP Tank - Agitator	SS 316	1000 (Litres)		1
97	CIP MCF Pump with motor	SS316	22 (m3/hr)40 (m head)		2
98	MCF for RO CIP	SS 316	22 (m3/hr)		1
99	Cartridges for CIP MCF	PP	7 (No.)		7
100	RO Permeate Storage Tank	HDPE	20M3		1
101	RO-II Reject Storage Tank / MEE Feed Tank	RCC	DDE		1
102	MEE Feed Pump with Motor and other Accessories.	Duplex	1.2 (m3/hr) 25 (M head)		2
103	Pre-heaters and other accessories	Tubes – Titanium Gr.II Seamless (1.2 mm thk.)Tube sheet – SS316 with Ti Outer shell- SS			2
104	Evaporator calandrias and other accessories	Tubes – Titanium Gr.II Seamless (1.2 mm thk.)Tube sheet – SS316 with Ti Cladding Outer			2
105	Flash vessel / Vapour Separator and other accessories	SS316			2
106	Circulation pumps with motor and accessories	Duplex	170 (m3/hr)5 (M head)		2
107	Condensate pump with motor and accessories	SS 304	1 (m3/hr)25 (M head)		2
108	Vacuum pump(Water ring type) with motor and accessories	Body – CI / Wetted Parts - SS 316L			2
109	Surface condenser (Shell and Tube) unit with accessories.	Shell – SS 316 L Tube Sheet – SS316			2
110	Concentrate pump with motor and accessories	Duplex	1 (m3/hr)25 (M head)		2
111	Salt Settling Tank	SS316			1

SR. NO.	NAME OF EQUIPMENT	Specification	CAPACITY	UOM	QTY
112	ATFD Feed Pump	Duplex	0.5 (m3/hr)25 (M head)		2
113	ATFD System	Shell - SS 316 Rotor – SS 316 Jacket – SS 316			1
114	ATFD Condensate pump with motor and accessories	SS 304	0.5 (m3/hr)25 (M head)		2
15	ATFD Vacuum pump(Water ring type) with motor and accessories	SS 316			2
116	CIP Tank	SS316			1
117	CIP pump with motor and accessories	SS 316			2
118	Colling Tower with other accessories	FRP			1
119	Air Compressor				1

ETP - Biological section



UF/RO(110 CMD)/MEE (22 CMD)SECTION FLOW CHART



Atul Bioscience Ltd
Plot N-37, Additional Ambernath Industrial Area, MIDC, Anand Nagar
MMR Zone-II, Ambernath (East) 421 506, Maharashtra, India
pharma@atul.co.in | www.atulbio.co.in

Environment Health & Safety Policy

We at **Atul Bioscience Limited**, consider employees as our most valuable asset. The Company has therefore committed to abide by a policy of elimination | prevention of all undesirable events which may result in loss of lives | injuries to personnel, damage to environment and property.

Continual improvement in EHS performance will be achieved by setting objectives, measuring performance and communicating results. Management at all levels will be held accountable for the EHS performance of the company.

Atul Bioscience Limited believes that successful implementation and sustainable development of this commitment requires a thorough understanding and complete acceptance of the following principles | initiatives:

1. Provide healthy and safe workplace for preventing injuries and ill health to all employees at site.
2. Implement a policy through involvement of all employees and its periodical review by the management.
3. Develop and implement 'Reduce, Reuse and Recycle' system for protection of Environment including emission of pollutants within acceptable range.
4. Design plants with adequate safeguards to ensure stipulated rules and regulations are followed governing EHS activities.
5. Integrate all business processes with Environmental, Occupational Health and Safety aspects. Proactively evaluate the risk of injury | illness and impact on environment.
6. Carry out process and operational changes through well-defined systems and strict adherence to the same.
7. Communicate EHS policy to all employees, visitors and stakeholders to promote awareness and participation through training.
8. Make continual improvement by setting clear annual EHS objectives and target dates for implementation and initiate periodic review for effectively achieving them.
9. Comply with all regulatory and other requirements related with Environment, Health and Safety and ensure its compliance through periodical audits.
10. Interact with neighboring industries on likely hazard and emergency response system.

Managing Director **Date: 07/02/2020**

Dr.Prabhakar Chebiyyam

RAIN WATER HARVESTING PROPOSAL

FOR

ATUL BIOSCIENCE LIMITED

Plot No N-37, Additional ambernath industrial area, Anand nagar MIDC, Ambernath (east)

INTRODUCTION:

Atul Bioscience Ltd (ABL) is engaged in manufacturing and marketing of Active Pharmaceutical Ingredients (APIs) and their intermediates, having its customer base across the world.

The ABL ambernath facility is certified with Quality management system - ISO 9001: 2015, Environment management system - ISO 14001:2015 and Occupational health & safety management system - ISO 45001: 2018.
The management of ABL is focused towards the protection of environment and managing the use of natural resources in the most effective and efficient manner in order to reduce environmental impacts.

ABL ambernath site granted with the Environment clearance from MoEF (Ministry of environment & forest) and consent by MPCB (Maharashtra pollution control board) where the condition of rain water harvesting by ground water recharge is mentioned.

PROPOSAL FOR RAIN WATER HARVESTING:

Almost all the natural resources whether replenishable or non – replenishable have to be conserved for sustainable development. Water is important replenishable natural resources

The rapid development of cities and consequent population explosion has led to depletion of surface water resources. For fulfilment of daily water requirement, indiscriminate pumping of ground water is being resorted to, leading to lowering of ground water table. At the same time the rain water is not being conserved which ultimately goes waste. To avoid this imbalance, conservation of rain water in the form of rain water harvesting is one of the best solutions.

The increasing demands for water in **AMBARNATH** have brought forward the realization that the underground reservoirs formed by the aquifers constitute invaluable water supply sources as well as natural water storage facilities.
Ground water recharge techniques have been developed world over through large number of experimental projects. Whereas the aim of majority projects was to augment water sources which will benefit the water quality, conserving surface water.

GEOLOGICAL CONSIDERATIONS FOR RAIN WATER HARVESTING

The Basaltic rocks of volcanic origin cover **AMBARNATH**. The Basaltic Rocks popularly known as Deccan Trap consist of vast pile of lava flows lying over one another and include other volcanic products as tuffs, breccia's, ashbedsand sedimentary intertrappean deposits formed during the period of quiescence between two lava flows.

Features of low permeability of Basalts, their multi - layer occurrence, fractured nature, presence of vesicular and amygdaloidal character besides attitude and the nature of rock formation need to be considered for formulating Rainwater Harvesting scheme.

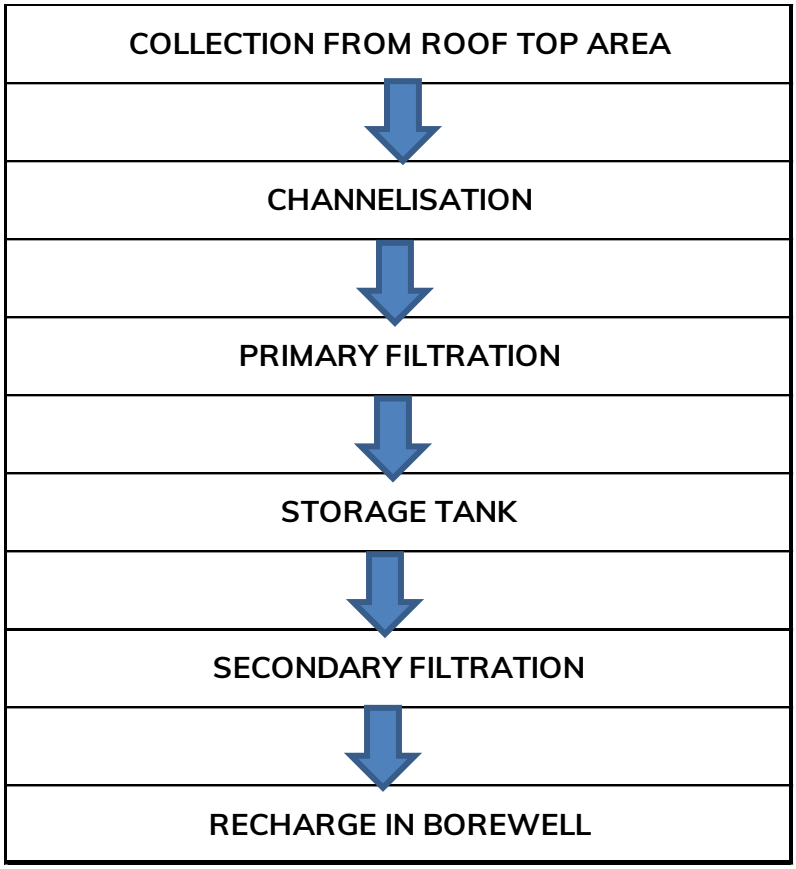
PROPOSED RAIN WATER HARVESTING SCHEME

Description:

Roof top rain water from administration building will be routed through down take pipes and primary filtration system and collected in aboveground storage tank. The collected water from storage tank will be further passed through secondary filtration system consisting of sand, gravel and pebble layer. This filtered water will be recharged in bore well to recharge the ground water.

Name of Scheme	Rainwater Harvesting & Augmentation of Ground Water sources.
Location of project	Atul Bioscience Ltd, Plot No. N-37, Add. MIDC, Anandnagar, Ambarnath.
Annual Rainfall	2900 mm.

PROPOSED SCHEME FOR ROOFTOP RAINWATER HARVESTING



RAIN WATER HARVESTING POTENTIAL

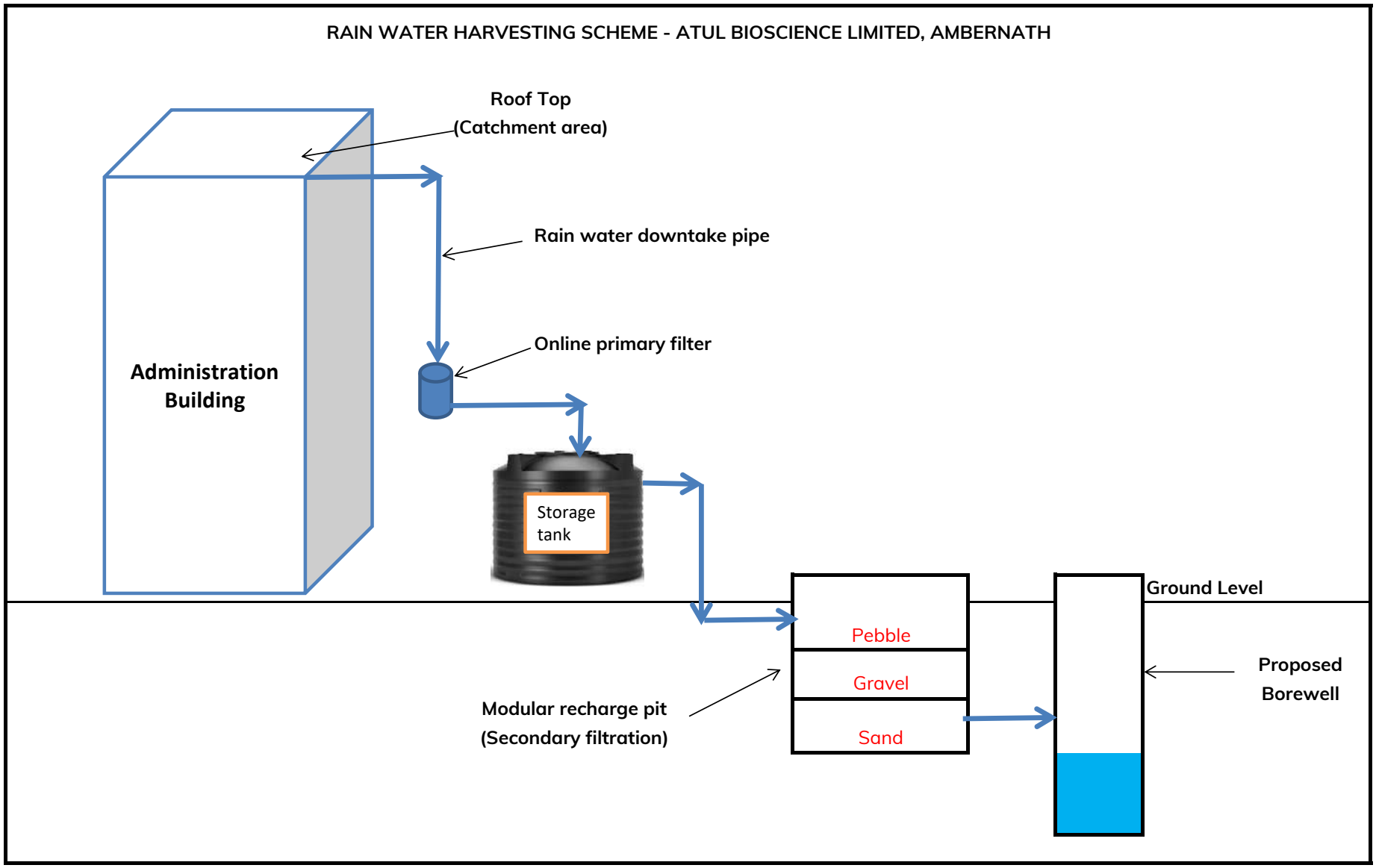
Terrace	Approx roof top area (sq mtr)	Avg annual rainfall (m.)	Runoff coefficient	Potential	UOM
Admin Building	388	2.9	0.85	956.42	Cu. meter
Total rain water harvesting potential per year (considering 80 rainy days/year)				956420	Litre
Total rain water harvesting potential per Day				11956	Litre

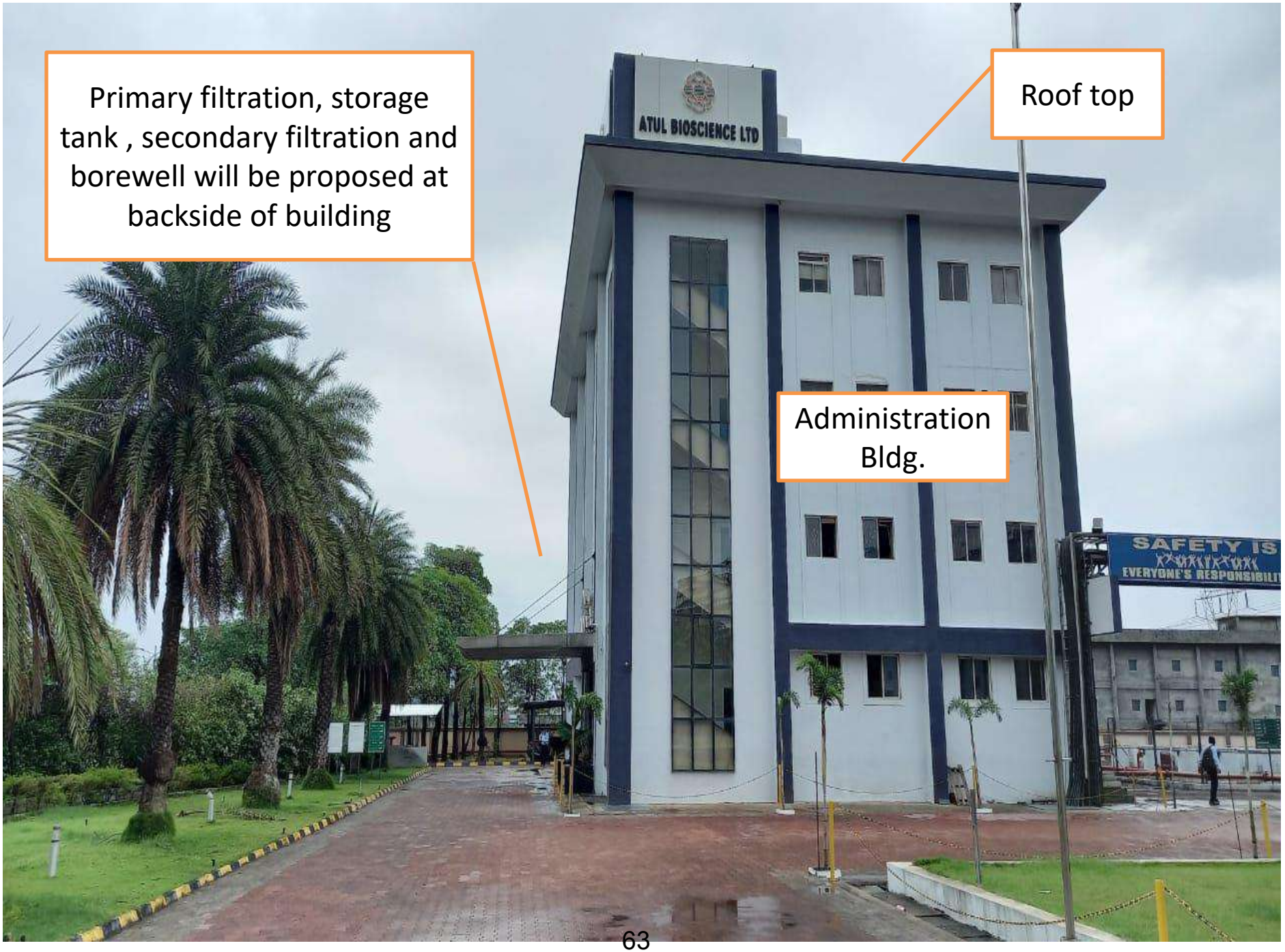
ADVANTAGES OF RAIN WATER HARVESTING:

- It improves the quality of existing ground water and helps to replenish it.
- It helps to meet the needs of already water scarce society.
- It also reduces soil erosion.
- The structures required are simple, economical, and eco-friendly.
- It helps in utilizing the primary source of water and prevents the runoff from going into sewer or storm drains, thereby reducing the unnecessary load on treatment plants.
- To prevent saline water intrusion in coastal aquifers.
- It will help in reducing the flood hazard.

Annexure:

Schematic diagram of rain water harvesting system


RAIN WATER HARVESTING SCHEME - ATUL BIOSCIENCE LIMITED, AMBERNATH
Roof Top
(Catchment area)
Rain water downtake pipe
Online primary filter
Administration Building
Storage tank
Ground Level
Pebble
Gravel
Sand
Modular recharge pit
(Secondary filtration)
Proposed Borewell


Primary filtration, storage tank , secondary filtration and borewell will be proposed at backside of building
Roof top
Administration Bldg.
ATUL BIOSCIENCE LTD
SAFETY IS
EVERYONE'S RESPONSIBILI

Ashwamedh Engineers & Consultants
Survey No.102, Plot No.26, Wadala Pathardi Road,
Indira Nagar, Nashik-422009, Maharashtra, India
(Turn of Samrat Sweet, Guru Gobind School)
sales@ashwamedh.net +91-253-2392225

TC-5509

Ashwamedh
Engineers & Consultants
Laboratory Services Division

NOISE LEVEL MEASUREMENT REPORT

Sample / Report No.	N/03/21/5710	Report Date	22/03/2021
Name and Address of Customer	**Atul Bioscience Ltd.** Plot No. N-37, Additional MIDC, Ambernath (East) 421506 Maharashtra		
Monitoring Done By	Laboratory	Sample Description /Type	DG Noise (Group: Atmospheric Pollution)
Order Reference	As per PO No. MU1/2021/POS/EHR/00006 Dated 25.06.2020	Date-Monitoring	15/03/2021

Sr. No.	Location	Noise Level Readings dB (A)				Average	Insertion Loss
		1	2	3	4		
1.	**DG Set**						
	DG Set (500 KVA) Open (0.5 meter from DG set acoustic) (Day time)	82.6	81.5	79.4	75.1	**79.9**	21.97
	DG Set (500 KVA) Close (0.5 meter from DG set acoustic) (Day time)	67.6	55.4	53.2	54.7	**57.73**	

Nirad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by

Ashwamedh Engineers & Consultants

End of Report

Note:
1. The result listed refer only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.

Ashwamedh Engineers & Consultants
Survey No.102, Plot No.28, Wadala Pathardi Road,
Indira Nagar, Nashik-422009, Maharashtra, India
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TC-5509

Ashwamedh
Engineers & Consultants
Laboratory Services Division

NOISE LEVEL MEASUREMENT REPORT

Sample / Report No.	N/03/21/5709	Report Date	22/03/2021
Name and Address of Customer	**Atul Bioscience Ltd.** Plot No. N-37, Additional MIDC, Ambernath (East) 421506 Maharashtra		
Monitoring Done By	Laboratory	Sample Description /Type	Ambient Noise (Group: Atmospheric Pollution)
Order Reference	As per PO No. MU1/2021/POS /EHR/00006 Dated 25.06.2020	Date-Monitoring	15/03/2021

Location	Time (h)	Results Noise Level dB (A) Fast Response	Results Noise Level dB (A) Slow Response	Method
A. Near Main Gate 1	1230 (Day Time)	69	66	CPCB Protocol for Ambient Level Noise Monitoring, July 2005 AEC/C/SAP/SAM/35 & 36
	2000 (Night Time)	57	55	
B. Near Dispersing Room	1240 (Day Time)	74	70	
	2010 (Night Time)	66	64	
C. Near ETP Plant	1250 (Day Time)	70	68	
	2020 (Night Time	68	67	
D. Near Plant III	1300 (Day Time)	74	70	
	2030 (Night Time	68	66	
E. Near Boiler House	1310 (Day Time)	67	66	
	2040 (Night Time	54	53	
F. Near Plant No. 1	1320 (Day Time)	69	66	
	2050 (Night Time	63	60	

Limits

As Per the Noise Pollution (Regulation & Control) Rules , 2000 (Rules 3 (1) and 4(1))

Area Type	Limits in dB (A) weighted scale	
	Day (6 a.m. to 10 p.m.)	Night (10 p.m. to 6 a.m.)
Industrial	75	70

Ashwamedh Engineers & Consultants

Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by

End of Report

Note:
1. The result listed refer only to the tested sample(s) and applicable parameter(s).
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Atul Bioscience Limited

Site Greenbelt photographs






FORM NO. 7

(See Rule 18(7) and schedules II, III, IV, VI, VIII, X, XI, XIII, XIV, XV, XVII, XVIII and XX Rule 114)

Atul Biosciences Ltd.

HEALTH REGISTER

(In respect of person employed in occupations declared to be dangerous operations under section 87).

Name Of Certifying Surgeon (a) **Dr. Anita Tarlekar(M.D.,AFIH)**
Certifying Surgeon

From: 8-8-20 To 8-8-21

From: _____ To _____

Sri No	Employee No	Name of Worker	Sex	Age	Date Of Employment Of present work	Date Of leaving or transfer to other work	Reason for leaving transfer or discharge	Nature of job or occupation	Raw Material or bye product handled	Dates Of medical Examination by certifying surgeon and result of medical examination	Result Of Medical Examination Physician Remark	If suspended from work state period of suspension with detailed reason	Certified fit to resume duty on with Signature of Certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with date certifying Surgeon
1	800033	MR. ANIL NALKAR	Male	34				ASST. MANAGER		10-8-20	Fit For Job				
2	810003	MR. VINAY GAIKWAD	Male	48				DGM		10-8-20	Fit For Job				
3	810007	MR. CHUNILAL B. PATEL	Male	52				ASST. MANAGER		8-8-20	Fit For Job				
4	810008	MR. MANESH DESAI	Male	44				ASST. MANAGER		10-8-20	Fit For Job				
5	810009	MR. VASUDEO DESAI	Male	43				ASST. MANAGER		10-8-20	Fit For Job				
6	810010	MR. SAMBASIVARAO TOKALA	Male	47				EXECUTIVE		8-8-20	Fit For Job				
7	810011	MR. VENKATESH CHALWADI	Male	43				EXECUTIVE		8-8-20	Fit For Job				
8	810012	MR. RAJENDRA LONDHE	Male	54				EXECUTIVE		8-8-20	Fit For Job				
9	810013	MRS ASHWINI KARNIK .	Female	39				EXECUTIVE		8-8-20	Fit For Job				
10	810014	MR. JIVAN SATHE	Male	40				OFFICER		8-8-20	Fit For Job				
11	810015	MR. GAJENDRA PAWAR	Male	35				OFFICER		8-8-20	Fit For Job				
12	810016	MR. VAIBHAV GAIKWAD	Male	37				OFFICER		8-8-20	Fit For Job				
13	810017	MR. IQBAL SHAIKH	Male	39				OFFICER		8-8-20	Fit For Job				
14	810018	MRS SWATI CHAUDHARI .	Female	43				OFFICER		8-8-20	Fit For Job				
15	810019	MR. KALPESH JADHAV	Male	33				OFFICER		10-8-20	Fit For Job				
16	810020	MR. SACHIN LIMJE	Male	30				OFFICER		8-8-20	Fit For Job				

डॉ. अनिता सं. तारळकर
कारखाने अधिनियम १९४८ च्या कलम ११ (३)
प्रमाणे ठाणे जिल्ह्याकरिता ४ डिसेंबर २०१८
पासून ३ डिसेंबर २०२० पर्यंत प्राधिकृत प्रमाणक
शल्य चिकीत्सक क्र. ACS31 AT/2016

70

PROFORMA INVOICE

CIN No. : U90001TG2001PLC03782, GSTIN : 27AADCM0026A1Z9, PAN : AADCM0026A

Customer Details / Billed To	Shipped To/Place of Supply	Invoice Details
Atul Bioscience Ltd. **Add :** Plot No. N-37, Additional MIDC, Ambernath, Dist THANE, Pincode :421506	**Atul Bioscience Ltd.** **Add :** Plot No. N-37, Additional MIDC, Ambernath, Dist THANE, Pincode :421506	**Proforma Invoice No.:** **MWML/20-21/0788**
Kind Attn. : DR. PRABHAKAR DIRECTOR	**Kind Attn. :** DR. PRABHAKAR DIRECTOR	**Invoice Datie:** 22-Mar-2021 **Membership No. :**
GSTIN : 27AACCA0331P1ZR	**GSTIN :** 27AACCA0331P1ZR	**MWML-HzW-AMB -2427**
STATE : MAHARASHTRA **STATE CODE : 27**	**STATE : MAHARASHTRA** **STATE CODE : 27**	**Service Period :** Mar -2021

Type of Service : Monthly Minimum Commitment Charges

SR	Name oft Product/Service	SAC	No. oft Montihs	Uniti	MMCC / Month	Amounti	Disposal Amt Recd.	Taxable Value	CGST		SGST		IGST		Totial
									Ratie (%)	Amounti	Ratie (%)	Amounti	Ratie (%)	Amounti	
1	APRIL 2021 TO MARCH 2022	999432	12	Nos	1500.00	18000.00	0.00	18000.00	9	1620.00	9	1620.00	0	0.00	21240.00
	Total :							**18000.00**		**1620.00**		**1620.00**		**0.00**	

Amount : ***RS. TWENTY-ONE THOUSAND TWO HUNDRED FORTY ONLY***

Totial Amounti Beftore tiax	18000.00
Add : CGST	1620.00
Add : SGST	1620.00
Add : IGST	0.00
Totial GST	3240.00
TOTAL Bill Amounti After GST	**21240.00**
GST payble under Reverse charge	**0.00**

Bank Detiails PANVEL Branch

Bank Name : Axis Bank Ltid

Accounti Number : 036010200004640

Bank Branch IFSC : UTIB0000036

Terms and Conditions: **Refter Quotiation/ contiracti copy oft MWML**

For **Mumbai Waste Management Ltd.**

Finance & Accountants Dept.

ATUL BIOSCIENCE LTD.			
ENVIRONMENT HEALTH & SAFETY			
TITLE	MOCK DRILL REPORT		
DATE OF MOCK DRILL	21-05-2021	REPORT PREPARED ON	25-05-2021

Name of the factory **:- Atul Bioscience limited**

Address of the factory **:-** Plot N-37, Additional Ambernath Industrial Area MIDC, Anand Nagar, Ambernath (East) 421506, Maharashtra.

1.0 **LOCATION OF EMERGENCY** **:** Plant – II first floor intermediate section

2.0 NATURE OF EMERGENCY **:** Palladium catalyst fire

3.0 DATE OF THE DRILL **:** 21-05-2021

4.0 DETAILS OF THE RESPONSE TIME :

Sr. No.	ACTIVITY	TIME Hrs:mts:sec	RESPONSE (Detailed description of activity)
4.1	Emergency Spotted at	13:32	The production batch of Valacyclovir HCL was in progress in reactor R-II-11 in plant – II. Contract workmen Sachin Konde started preparation of palladium carbon catalyst slurry in open SS container.
		13:37	Since the palladium carbon solid is extreme flammable in nature in dry condition, the fire took place during adding the catalyst in open container.
		13:38	Sachin konde immediately stopped the work and ran away shouting "Fire Fire"
4.2	Alarm raised (Information raised)	13:39	Sachin broke the MCP-II-06 to activate fire alarm system.
		13:40	The plant-II shift officer Anuj Pawar working

			at ground floor immediately rushed to fire alarm panel at corridor to see the zone of fire. He found that zone 6 is activated and hence he ran to the plant –II first floor.
			Sachin told Anuj about the palladium carbon fire. They checked the fire from the door glass.
		13:40	Fire alarm panel at security gate No 2 is also got activated. Security officer Dilip Bhaisade checked the fire zone on the panel and ran towards plant-II to check whether there is actual fire or it is a false alarm.
		13:43 – 13:46	Meanwhile shift officer Anuj Pawar called security gate No 2 extension No. 3302 from plant – II FLP telephone No. 3337
			Anuj Pawar instructed team to take emergency shutdown of the process plant.
			Anuj Pawar asked the workmen Vinod Prajapati to remove the carboy pallets from the incident vicinity so that there will be free space for firefighting
			Anuj Pawar also asked two workmen Sachin Konde & Santosh Ampaya to arrange the fire extinguishers for firefighting
			Anuj Pawar used ABC fire extinguisher No 49 and tried to extinguish fire. It is extinguished partially.
4.3	Employees evacuated	13:40 – 13: 46	After hearing the siren, plant –II, Plant – I and warehouse personnel started running towards assembly point at security gate No 2. Two workmen of contractor 'Gurukrupa Engineering' working outside the plant-II also started running to assembly point.
			The personnel from Engineering utility and ETP ran towards plant II & IV side. Fire fighter Prakash patil guided them for escape.
			Security officer Bhaisade called Site head Kailas Bharambe on extension number 3308

			and briefed him about the fire incident. Kailas Bharambe immediately rushed to emergency control station at security gate No 2 to take charge of SEM 'Site emergency controller'.
4.4	Rescue team at site	13:42	After hearing the siren, all on-duty fire fighters, first aiders and EHS coordinator Kalpesh Jadhav reported to emergency control station.
			SEC Kailas Bharambe briefed Kalpesh Jadhav about the emergency and asked to guide the ERT (emergency response team) for further actions. He also asked security team to call all plants and asked to stop the contractors and project activities.
		13:43	Meanwhile plant II incharge Jitendra Chavan and EHS manager Balkrishna kadam IC (incident controller) reached to incident site. EHS coordinator Kalpesh Jadhav briefed them about the fire incident.
		13:44	During escape from emergency door at plant –II, one workmen Santosh Ampaya fall down by tripping between pipelines. EHS coordinator Kalpesh Jadhav asked first aiders Afzal khan & Vinod Deshmukh to rescue him and take to occupational health center near security gate No.1
4.5	Firefighting and emergency handling	13: 43 - 13: 57	EHS Coordinator Kalpesh Jadhav used megaphone and instructed the fire fighters to do the firefighting by ABC type fire extinguishers. Kalpesh Jadhav asked emergency response team to barricade the area around plant-II. Incident controller asked electrical person Mahesh Kambale to go to fire pump house for preparedness of DG engine pump in case of requirement.
			Fire fighters Prakash Patil & Sandip Gharat started firefighting with ABC fire extinguisher No. 37 & 47

			When incident controller Balkrishna kadam realized that fire cannot be controlled by fire extinguishers, he asked firefighters to do the firefighting with fire hydrant system. He also asked to take plant – I shut down and asked emergency team to be ready with laying fire hydrant hose in T section. IC Balkrishna communicated the site happenings to SEC Kailas Bharambe with using plant intercom system.
			Plant incharge Jitendra Chavan ensured the availability of nitrogen blanketing and jacket cooling to reactor R-II-11 He also asked Electrical team member Jayesh patil to disconnect electrical supply from power distribution board PDB-2.
			Fire fighters used hydrant point No FH-10 and hose reel No HR-6 and did the firefighting.
			Incident controller asked fire fighter Ankush Gaware to arrange & be ready with the SCBA set at incident spot. Ankush took the SCBA - 01 from nearby T section and get ready for the use as per requirement.
			Fire is extinguished by hose reel and fire hydrant. Incident controller and plant incharge took round of the area and ensured the complete extinguishing of fire.
4.6	Assembly point management and head count	13:46 - 13:56	Security team guided assembled personnel and stands them in proper rows with safe distancing.
			HR Coordinator Ashwini karnik briefed them that there is an emergency in plant-II. Site Emergency controller asked assembled people not to get panic and assured for their safety.
			HR coordinator took the head count and cross verified it with security office data. Since it’s a partial evacuation she confirmed

			with all remaining plant/area incharges and ensured there is no any person missing.
4.7	Emergency management & 'all clear'	13:58 – 14:08	Incident controller Balkrishna kadam informed Site Emergency Controller Kailas Bharambe about the action taken at incident spot and the fire is extinguished completely.
			SEC Kailas Bharambe also went to cross check the incident spot, discussed with incident controller, area incharge and fire fighters. He took the entire floor round and ensured that everything is safe.
			SEC & IC came back to assembly point and briefed the assembled personnel about the incident of palladium carbon fire. SEC announced for 'all clear'
			All assembled personnel returned to their workplace safely.
		14:10	Observer Mr Dhanajay Patil and Mr Amit Bhusare shared their views with ERT members and given the suggestions for improvement. They also expressed thanks to ERT members for their active role played in mock drill.

5.0 FEATURES OF THE DRILL:-

Mock drill as per factories act is carried out at ABL Ambernath site to assess the effectiveness of Onsite Emergency Plan & preparedness of the Emergency Response Team as well as the employees/ contractors.
The mock drill is conducted during lunch hours to ensure ERT and other personnel are performing their duties perfectly at any given time.

6.0 OVERALL ASSESSMENT OF PREPAREDNESS FOR EMERGENCIES:-

Emergency preparedness of all ERT members found good. Communication among all ERT members was maintained perfectly. Role played by all the members as per mentioned in OSEP – Onsite Emergency Plan.

7.0 AREAS OF IMPROVEMENT:-

NO.	OBSERVATIONS	ACTION PLAN	TARGET DATE
1	The noise level of fire alarm provided at security gate is low.	The existing alarm will be replaced with 110 db alarm.	30-06-2021
2	Drinking water arrangement to be done for the assembled personnel at assembly point.	Drinking water jar kept at security gate to be made available at assembly point during emergency.	Completed - Immediate communication done.
3	Three stand poles for Employees, Contractors & Visitors to be made available at assembly point for the ease of headcount process.	Stand poles will be arranged and kept at assembly point.	30-06-2021

8.0 REMARKS:-

The overall preparedness of people & emergency response team was assessed through the mock drill and found effective.

Such periodic mock drills helps organization to understand the gaps so that the identified areas can be further improved to deal with any type of probable emergency.

1. EHS Manager
(Mr. Balkrishna kadam)

1. Factory Manager
(Mr. Kailas Bharambe)

GLIMPSE OF MOCKDRILL



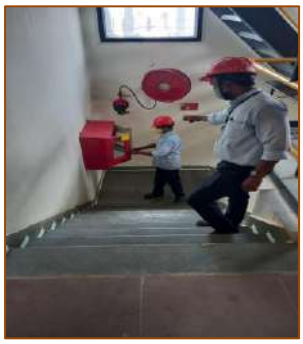








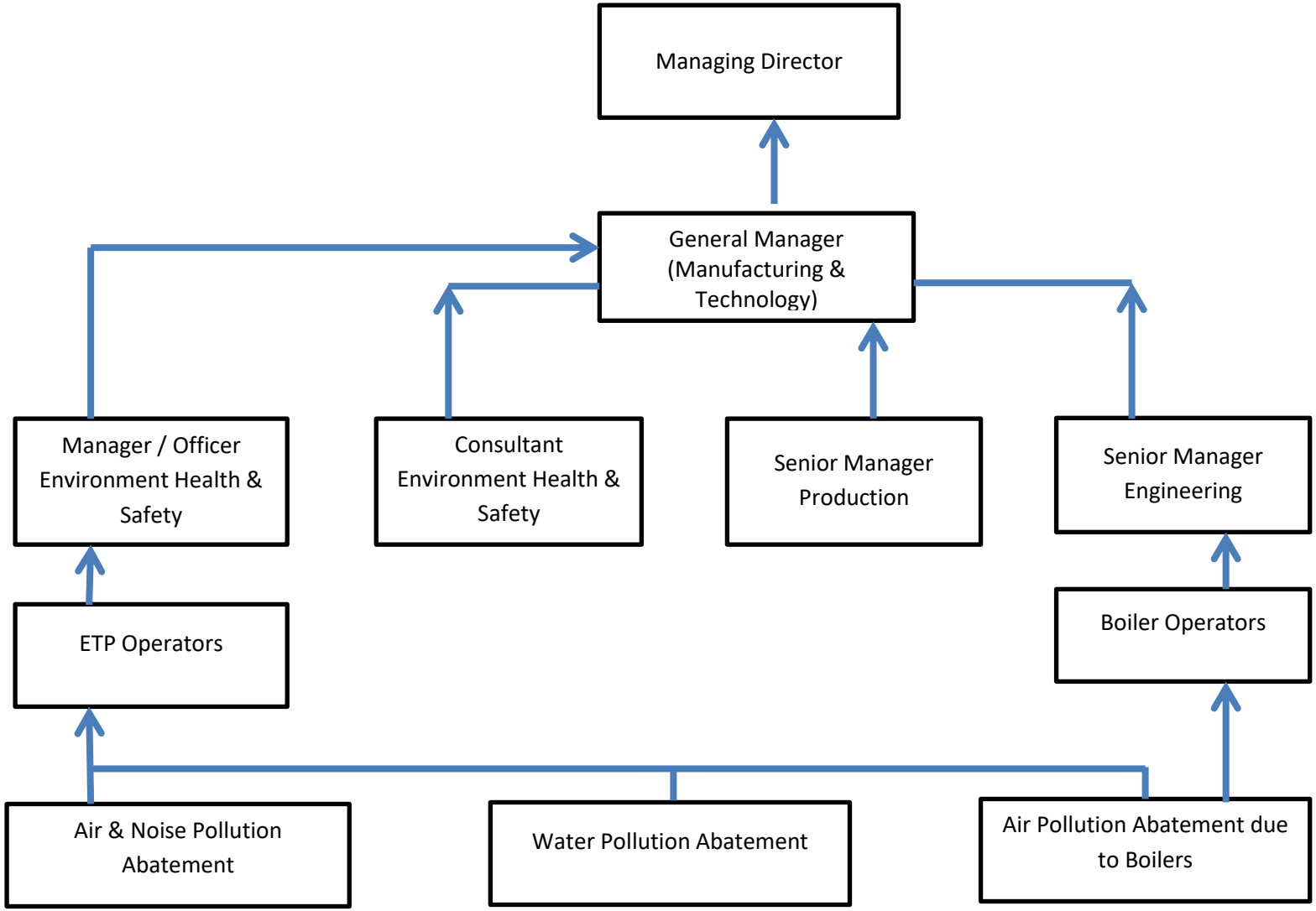





Thank you.

M/s. ATUL BIOSCIENCE LTD

ENVIRONMENT CELL



MULTIMETALS LIMITED

Regd Office: Heavy Industries Area, Kansua Road, Kota-324003
Phone No: +91 744-7118519, **Email:** roc@multimetals.in
CIN-L27101RJ1962PLC001519

NOTICE

Pursuant to the Regulation 29 read with Regulation 47 of the Securities and Exchange Board of India (Listing obligations and Disclosure Requirements) Regulations, 2015, notice is hereby given that the meeting of the Board of Directors of the Company inter alia to consider and approve the un - audited financial result of the company for the quarter ended 30th June, 2020 will be held on Tuesday,15th September, 2020 at 3.00 P.M.

The said Notice will be accessed on the Company's website at www.multimetals.in and also be accessed on the Stock Exchange website at www.cse-india.com.

For Multi Metals Limited
Sd/-
B. S. Tanwar
Company Secretary

Place: Kota
Date : 10th September,2020

Public Notice
As per EC Condition
(XIX)

Our Active Pharma Ingredients (API) and intermediates manufacturing plant on Plot No. N-37, located at Additional Ambernath MIDC, Maharashtra was accorded the Environmental Clearance for the proposed expansion (Change in Product Mix) on 26.06.2020 from the Government of Maharashtra, Mumbai. The copies of clearance letter are available with Maharashtra Pollution Control Board and may also be seen on the Department of Environment, Government of Maharashtra web site at

https://parivesh.nic.in

Atul Bioscience Ltd.

PUBLIC NOTICE

TAKE NOTICE THAT Mr. Sureshchandra Biharilalji Lodha, Mrs. Manju Sureshchandra Lodha and Mr. Ketan Sureshchandra Lodha are negotiating with my clients for acquiring all their right, title and interest in respect of commercial premises described in the Schedule hereto below free from all encumbrances. It is also represented by the above named Vendors to my clients that original title Agreement executed by and between Mr. P. J. Vakil, Partner of Ideal Gas Service and the Developers/ Builders in respect of subject commercial premises is lost and/or misplaced.

Any person having any claim or right in respect of the said premises by way of inheritance, share, sale, mortgage, lease, lien, licence, gift, possession or encumbrance howsoever or otherwise is hereby required to intimate to the undersigned within 14 days from the date of publication of this notice of their such claim, if any, with all supporting documents failing which the transaction shall be completed without reference to such claim and the claims, if any, of such person shall be treated as waived and not binding on my clients.

THE SCHEDULE ABOVE REFERRED TO:-

Shop No. 4 on the ground floor of the building known as "Shobhana" belonging to Triveni Sangam Co-op. Housing Society Limited situated at Plot No. 46, Tilak Road, Santacruz (West), Mumbai 400 054 together with five fully paid up shares of Rs. 50/- each bearing Distinctive Nos. 61 to 65 (both inclusive) comprised under Share Certificate No. 13 on the plot of land bearing C.T.S. No. H-103/104 of Village Bandra-H, Taluka – Andheri, Mumbai Suburban District.

Aspire Home Finance Corporation Limited

Motilal Oswal Tower, Rahimtullah Sayani Road, Opposite ST Depot, Prabhadevi, Mumbai-400025.
Email :- info@ahfcl.com **CIN :-** U65923MH2013PLC248741

POSSESSION NOTICE (FOR IMMOVABLE PROPERTY/IES)

Whereas the undersigned being the Authorised Officer of the Aspire Home Finance Corporation Ltd. under the Securitisation and Reconstruction of Financial Assets & in compliance of Rule 8(1) of Enforcement of Security Interest Act, 2002, and in exercise of powers conferred under section 13(12) read with Rule 3 of the Security Interest (Enforcement) Rules 2002, issued demand notice/s on the date mentioned against each account calling upon the respective borrower/s to repay the amount as mentioned against each account within 60 days from the date of notice(s)/date of receipt of the said notice/s.

The borrower/s having failed to repay the amount, notice is hereby given to the borrower/s and the public in general that the undersigned has taken possession of the property/ies described herein below in exercise powers conferred on him/her under Section 13(4) of the said Act read with Rule 8 of the said Rules on the dates mentioned against each account.

The borrower/s in particular and the public in general is hereby cautioned not to deal with the property/ies and any dealing with the property/ies will be subject to the charge of Aspire Home Finance Corporation Ltd., for the amount and interest thereon as per loan agreement. The borrowers' attention is invited to provisions of Sub-section (8) of Section13 of the Act, in respect of time available, to redeem the secured assets.

Sr. No.	Loan Agreement No. /Name of the Borrower/Co Borrower/Guarantor	Demand Notice date & Amount	Date of possession Taken	Description of the Property/ies mortgaged
1.	LXVAS00117-180057241 Dhanesh Ramchandra Sawant & Priti Dhanesh Sawant	18-08-2018 for Rs. 1698959/-	05-09-2020	Flat No 306,3rd Floor,A Wing, Nilkanth Village, Sajjan, Taluka - Vikramgad, District- Palghar 401605 Thane Maharashtra

Sd/-
Authorized Officer,
(Aspire Home Finance Corporation Ltd.)

Place : Maharashtra
Dated : 10-09-2020

SBI State Bank of India

BRANCH-SARB THANE (11697):- 1st Floor, Kerom,Plot No 112, Circle Road No 22, Wagle Industrial Estate, Thane (W) 400604, **E- mail ID of Branch :** sbi.11697@sbi.co.in. **Landline No. (Office):-** 022-25806861

SALE NOTICE FOR SALE OF IMMOVABLE PROPERTIES
See Provision to rule 8(6)

E-AUCTION SALE NOTICE FOR SALE OF IMMOVABLE ASSETS CHARGED TO THE BANK UNDER THE SECURITISATION AND RECONSTRUCTION OF FINANCIAL ASSETS AND ENFORCEMENT OF SECURITY INTEREST ACT, 2002 READ WITH PROVISION TO RULE 8(6) OF THE SECURITY INTEREST (ENFORCEMENT) RULES,2002.

Notice is hereby given to the public in general and in particular to the Borrower(s) and Guarantor(s) that the below described immovable property mortgaged/charged to the Secured Creditor, the **PHYSICAL POSSESSION** of which has been taken by the Authorised Officer of State Bank of India, the Secured Creditor, will sold on **"AS IS WHERE IS ", "AS IS WHAT IS " and "WHATEVER THERE IS"** basis and on the terms and conditions specified hereunder.

Name of Authorised Officer	Mr. N.M. Suryawanshi	Mobile No.9004118770

(Property Under Physical Possession of Bank)

Name Of Borrower(s)	Name of Guarantor(s)	Outstanding Dues for Recovery of which Property/ies is/are Being Sold
M/s. Dhara Enterprises Proprietor- Smt. Anita Ashwin Vora	1. Ashwin Jitendra Vora 2. Mrs. Pratima Parekh 3. Mrs. Taraben Parekh	**Outstanding dues: Cash Credit-** Rs.6,69,19,049.21 + Intt. & Charges w.e.f. 31.01.2014 **Demand Notice Date:- 05.02.2014**

Property details:- Gala On Plot of Land bearing No.C-4, Sr. no. 45, Ground Floor in Arihant Industrial Estate No. 2, Dhumal Nagar Waliv, Vasai Road (east), Palghar-401208.
Area-1360 Sq. ft. Reserve Price: Rs.30,00,000.00, EMD: Rs.3,00,000.00.

Earnest Money Deposit (EMD) = 10% of the Reserve Price	Bid Increment Amount = Rs.1,00,000/-

Date and time for submission of request letter of participation / KYC Documents/ Proof of EMD etc. = on or before 28.09.2020, up to 5.00 p.m.

Date & Time of e-Auction = Date:- 30.09.2020 **Time:-** From 10.00 a.m.To 11.00 a.m. with unlimited extensions of 5 Minutes each

Date & Time of inspection of the properties: 19.09.2020 from 12.00 P.M. to 4.00 P.M.

For detailed terms and conditions of the sale, please refer to the link provided in State Bank of India, the Secured

पुण्य नगरी
गुरुवार , १० सप्टेंबर २०२०
SMART ठाणे-वसई-प

शैक्षणिक धोरण कोणत्याही देशाच्या विकासाचे द्योतक !

डॉ. वसंत काळपांडे यांचे प्रतिपादन

सफाळे : कोणत्याही देशाचे शैक्षणिक धोरण हे त्या देशाच्या विकासाचे द्योतक आहे. मातृभाषेतील शिक्षणाला विशेष महत्त्व देऊन कौशल्य विकासावर आधारित असलेले नवीन शैक्षणिक धोरण जाहीर झाले आहे. टप्प्याटप्प्याने या धोरणाची अंमलबजावणी होणार आहे. हे धोरण प्रत्येकाने प्रथमतः समजून घेणे आवश्यक आहे, असे परखड मत ज्येष्ठ शिक्षणतज्ज्ञ डॉ. वसंत काळपांडे यांनी व्यक्त केले. लायन्स क्लब ऑफ सफाळेच्या माध्यमातून 'शिक्षणाच्या आधुनिक वाटा' या विषयावर ऑनलाइन वेबिनार नुकतेच उत्साहात पार पडले. यावेळी प्रमुख वक्ते म्हणून डॉ. काळपांडे बोलत होते.

सुमारे ३४ वर्षांनंतर केंद्र सरकारने नवीन शैक्षणिक धोरणाला २९. जुलै २०२० रोजी मान्यता दिली आहे. या धोरणात इयत्ता पाचवीपर्यंतचे विषय मातृभाषेतून शिकवले गेले पाहिजे, असे म्हटले आहे, परंतु हे बंधनकारक नाही. समूह शाळेच्या संकल्पनेबरोबर महाविद्यालयीन विद्यार्थ्यांना आपल्या आवडीच्या विषयात पदवी किंवा पदव्युत्तर शिक्षण घेता येईल. नवीन शैक्षणिक धोरणात ५+३+३+४ असा आकृतीबंध असून, अनेक स्वागतार्ह बदल या धोरणात केले आहेत. २०३० पर्यंत हे धोरण पूर्णपणे अंमलात येईल, अशी अपेक्षाही त्यांनी व्यक्त केली.

या वेळी मुंबई येथील शारीरिक शिक्षण महाविद्यालयाचे प्राचार्य डॉ. गो. वी. पारगावकर यांनी अनुभवातून अनुभूती असे शिक्षण अपेक्षित असून, प्रत्यक्ष धोरण आणि त्याची अंमलबजावणी यात खूप फरक आहे, असे सांगून प्रत्येक शाळेत २५० विद्यार्थ्यांमागे एक शारीरिक शिक्षण शिक्षक हे १९६८ च्या धोरणात नमूद असूनही आजतागायत त्याची काटेकोरपणे अंमलबजावणी केली गेली नाही. शासनाने शारीरिक शिक्षण विषय आणि शिक्षकांकडे गांभीर्याने लक्ष देणे आवश्यक आहे. विद्यार्थ्यांच्या व्यक्तिमत्त्व समृद्धीसाठी शिक्षणाबरोबर आरोग्य शिक्षण व शारीरिक शिक्षण अत्यंत महत्त्वाचे असल्याचे त्यांनी अधोरेखित केले.

प्रसिद्ध शिक्षणतज्ज्ञ निलेश निमकर यांनी नवीन शैक्षणिक धोरणात बाल शिक्षणाला अत्यंत महत्त्वाचे स्थान देण्यात आले आहे. या धोरणात बालवाडीपासून इयत्ता दुसरीपर्यंतचे शिक्षण हा बाल शिक्षणाचा भाग असेल. बालसंगोपन आणि बालशिक्षण देणाऱ्या व्यक्तींसाठी व्यावसायिक प्रशिक्षण निर्मिती त्या त्या राज्याने करावयाची आहे, असे सांगितले. यावेळी शिक्षकांच्या विविध शंकांचे शिक्षण तज्ज्ञांनी निराकरण केले. या वेबिनारचे उद्घाटन डिस्ट्रिक गव्हर्नर शशिकांत मोध यांच्या हस्ते झाले. यावेळी विशेष अतिथी म्हणून डॉ. जोतिबा कडाली उपस्थित होते. याप्रसंगी सफाळे लायन्स क्लबचे अध्यक्ष ॲड. तारानाथ वर्तक यांनी नवीन शैक्षणिक धोरणाबद्दल शिक्षण क्षेत्रात कार्यरत असलेल्यांना उद्बोधन करण्याबाबत वेबिनारचे आयोजन करण्यात आल्याचे सांगितले. प्रास्ताविकात प्रोजेक्ट चेअरमन प्रमोद पाटील यांनी शासनाच्या थँक्स अ टीचर अभियानाअंतर्गत समाजात शिक्षकांचे स्थान अत्यंत मोलाचे असून, शिक्षकांप्रति आदरभाव व्यक्त करण्यासाठी हा उपक्रम राबवण्यात आला असे सांगितले. लायन्स क्लब ऑफ सफाळे सेक्रेटरी दिनकर वर्तक यांनी आभार मानले.

केडीएमसीची मालमत्ता कराच्या ५ टक्के सवलतीस ३० सप्टेंबरपर्यंत मुदतवाढ

कल्याण : कल्याण-डोंबिवली महापालिकेतर्फे मालमत्ता कराची संपूर्ण रक्कम रोख, ऑनलाइन अथवा धनादेशाद्वारे या आर्थिक वर्षाच्या ३१ ऑगस्टपर्यंत भरणाऱ्या करदात्यास मालमत्ता करात ५ टक्के सवलत देण्यात आली होती. आता या सवलतीला ३० सप्टेंबरपर्यंत मुदतवाढ देण्यात आली आहे. लॉकडाऊनमुळे नागरिकांच्या उत्पन्नावर मोठा परिणाम झाला आहे. त्यातच पालिकेने आता मालमत्ता कर आणि पाणी बिले पाठवल्यामुळे नागरिक चांगलेच त्रस्त झाले आहेत. ३१ ऑगस्टपूर्वी एकरकमी कर भरल्यास ५ टक्के सवलत देण्याचे पालिकेने यापूर्वी जाहीर केले होते. मात्र या कालावधीत अनेक नागरिकांना कराचा भरणा करता आला नाही. त्यामुळे ही सवलत एक महिन्यासाठी वाढवण्याची मागणी सभागृह नेते प्रकाश पेणकर यांनी आयुक्तांकडे केली होती. त्याची दखल घेत आयुक्त डॉ. सूर्यवंशी यांनी या

जाहीर सूचना
EC कंडीशन प्रमाणे
(XIX)

प्लॉट नं. एन-३७, एँडीशनल अंबरनाथ एम. आय. डी. सी, अंबरनाथ, महाराष्ट्र येथे स्थित आमचे सक्रिय फार्मा साहित्य आणि मध्यवर्ती उत्पादन प्रकल्पाला महाराष्ट्र सरकार, मुंबई यांच्याकडून २६-०६-२०२० रोजी प्रस्तावित विस्तारासाठी (मिश्र उत्पादन बदल), पर्यावरण विषयक मंजुरी देण्यात आली आहे. सदर पर्यावरण विषयक मंजुरीची प्रत महाराष्ट्र प्रदूषण नियंत्रण मंडळ यांच्या कार्यालयामध्ये आणि पर्यावरण विभाग, महाराष्ट्र शासन यांच्या **https://parivesh.nic.in** या संकेतस्थळावर उपलब्ध आहे.

अतुल बायोसायन्स लि.

जाहीर नोटीस

सर्व लोकांना या नोटीसीव्दारे जाहीर करण्यात येते की, खालील परिशिष्टातील वर्णन केलेली मिळकत आमचे अशिल श्री. अनंता वामन टेंभे रा. बापसई ता, कल्याण जि. ठाणे यांनी मुळमालक यांचेकडून कायम स्वरूपी विकत घेण्याचे ठरविले आहे. तरी सदर मिळकती संदर्भात कोणाचेही कोणत्याही प्रकारचे हितसंबंध, हक्क, गहाण, दान, करार, बक्षीस अगर पोटगी हक्क व अन्य इजमेंटरी हक्क अगर कोणत्याही प्रकारचे हक्क, हितसंबंध असल्यास ही नोटीस प्रसिध्द झाल्यापासून ०७ दिवसाच्या आत खालील सही करणार यांचे पत्त्यावर त्या संबंधी कागदपत्रासह लेखी निवेदन सह सादर करावे. तसे न केल्यास तुम्ही तुमचे सर्व हक्क हितसंबंध सोडून दिले आहेत. असे समजून आमचे अशिल हे सदर मिळकतीचा खरेदी व्यवहार पूर्ण करतील हे सर्वांना कळावे.
खालील परिशिष्टांत वर्णन केलेली मिळकत मौजे-खरशेतउमरोली, ता. मुरबाड, जि. ठाणे येथील जमिनीचे वर्णन येणे प्रमाणे.

जमिन मालकाचे नाव	सर्व्हे नं.	क्षेत्र	पो.ख	आकार
श्री.लक्ष्मण जैतु निमसे	५९५	0-0८-१0	0-00-२0	0=३२

पत्ता : मु.पो. मुरबाड, ता. मुरबाड जि. ठाणे. मो.९७६५९६७४८४
सही/-
ॲड. रोहन वसंत तेलवणे

पोहच पत्र

	22202000019023	नोंदणी दिनांक :	03/11/2020 04:11:26 PM
नाव	Atul Bioscience ttd		
पक्षकार			
कार्यवर्ग	खाजगी कंपनी		
कार्यवर्ग(उप)	खाजगी कंपनी		
पत्र क्रमांक		पत्र दिनांक	: 03-NOV-20
प्रकार	सामान्य पत्र	पत्राचा वर्ग	: सर्वसाधारण पत्र
वर्गवारी	सर्वसाधारण		
निर्देशित	करनिर्धारण विभाग		
विषय	Intimation about receipt of Environment clearnce		
जोडलेले	yes		

: भविष्यात पुढील पत्र व्यवहारासाठी वरील नोंदणी क्रमांकाचा उपयोग केला जाईल.

Atul Bioscience Ltd
Plot N-37, Additional Ambernath Industrial Area, MIDC, Anand Nagar
MMR Zone-II, Ambernath (East) 421 506, Maharashtra, India
pharma@atul.co.in | www.atulblo.co.in

November 03, 2020

To,

The Chief Officer

Ambernath Municipal Council,

Ambernath (West)

SUB: Intimation about receipt of Environment clearance.

Dear Sir/Madam,

We, Atul Bioscience Ltd, located at Plot No. N-37, Additional Industrial area, MIDC, Anand Nagar, Ambernath (E), Dist: Thane – 421506, intimate you that our Active Pharma Ingredients (API) and intermediates manufacturing plant is accorded the Environmental Clearance for proposed expansion (Change in Product Mix) - SIAIMH/IND2/152225/2020 from the Environment department, Government of Maharashtra, Mumbai.

A copy of Environment clearance is attached herewith for your information please.

Thanking You,

For Atul Bioscience Ltd, Ambernath

Kailas.

Mr. Kailas Bharambe

(GM – Manufacturing and Technology)

Ashwamedh Engineers & Consultants
Survey No. 102, Plot No.26, Wadala Pathardi Road,
Indira Nagar, Nashik - 422009, Maharashtra, India
(Near Guru Gobind Singh School, Near Pandav Nagari,
Turn at Sai Mandir Chowk / Samrat Sweet Turning)
sales@ashwamedh.net +91-253-2392225

Ashwamedh Engineers & Consultants
'Laboratory Services Division

TC-5509

TEST REPORT

Sample ID : E/03/21/0189	Report No. E/03/21/0189	Report Date	23/03/2021
Name and address of Customer	**Atul Bioscience Ltd.** Plot No. N-37, Additional MIDC, Ambernath (East) 421506, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Untreated Trade Effluent (Group : Pollution & Environment)
Sampling Location	ETP Inlet (Distillate M.I)	Date -Sampling	16/03/2021
Sample Quantity / Packing	5 L x 1 no. plastic can	Date - Receipt of sample	18/03/2021
Sampling Procedure	IS 3025 (Part 1):1987 Amds.1& APHA,23rd Ed.2017,1060 B,1-40	Date - Start of Analysis	18/03/2021
Order Reference	As per your Agreement dated 01.04.2020	Date - Completion of Analysis	22/03/2021

Sr.No.	Parameter	Result	Unit	Method
	CHEMICAL TESTING			
1	pH	**7.19**	-	IS 3025 (Part 11):1983, RA 2017
2	Total Suspended Solids	**54**	mg/L	IS 3025 (Part 17):1984, RA 2017
3	Biochemical Oxygen Demand (3 days, 27°C)	**671**	mg/L	IS 3025 (Part 44):1993, RA 2018
4	Chemical Oxygen Demand	**1600**	mg/L	APHA, 23rd Ed., 2017, 5220-B,5-18
5	Total Dissolved Solids	**2940**	mg/L	IS 3025 (Part 16):1984, RA 2017
6	Oil & Grease	**<1**	mg/L	APHA, 23rd Ed., 2017, 5520-B, 5-42
7	Sulphide (as H_2S)	**0.2**	mg/L	APHA; 23rd Ed., 2017, 4500 –S2, C-4-183, F-4-187
8	Free Ammonia (as NH_3-N)	**0.11**	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, F, 4 -118
9	Phenolic Compounds (as C_6H_5OH)	**<0.001**	mg/L	APHA, 23rd Ed., 2017, 5530- B, 5-48 & C,5-50

Note: Sample ID E/03/21/0189 bear Two test reports, E/03/21/0189 and E/03/21/0189N respectively.

Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by

Ashwamedh Engineers & Consultants

End of Report

Note:
1. The result listed refer only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.
3. In case sampling is not done by laboratory, the results apply to the sample as received.
4. There are no additions to, deviations or exclusions from the method.

Ashwamedh Engineers & Consultants
Survey No. 102, Plot No.26, Wadala Pathardi Road,
Indira Nagar, Nashik - 422009, Maharashtra, India
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Turn at Sai Mandir Chowk / Samrat Sweet Turning)
sales@ashwamedh.net +91-253-2392225

Ashwamedh Engineers & Consultants
Laboratory Services Division

TEST REPORT

Sample ID : E/03/21/0189	Report No. E/03/21/0189N	Report Date	23/03/2021
Name and address of Customer	**Atul Bioscience Ltd.** Plot No. N-37, Additional MIDC, Ambernath (East) 421506, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Untreated Trade Effluent (Group : Pollution & Environment)
Sampling Location	ETP Inlet (Distillate M.I)	Date -Sampling	16/03/2021
Sample Quantity / Packing	5 L x 1 no. plastic can	Date - Receipt of sample	18/03/2021
Sampling Procedure	IS 3025 (Part 1):1987 Amds.1& APHA,23rd Ed.2017,1060 B,1-40	Date - Start of Analysis	18/03/2021
Order Reference	As per your Agreement dated 01.04.2020	Date - Completion of Analysis	22/03/2021

Sr.No.	Parameter	Result	Unit	Method
	CHEMICAL TESTING			
1	Nitrate Nitrogen (as NO_3-N)	0.36	mg/L	APHA,23rd Ed.2012, 4500 NH3, B & C, 4 -IID, 4-112

Note: Sample ID E/03/21/0189 bear Two test reports, E/03/21/0189 and E/03/21/0189N respectively.

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TC-5509

TEST REPORT

Sample ID : E/03/21/0190	Report No. E/03/21/0190	Report Date	23/03/2021
Name and address of Customer	**Atul Bioscience Ltd.** Plot No. N-37, Additional MIDC, Ambernath (East) 421506, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Treated Trade Effluent (Group : Pollution & Environment)
Sampling Location	ETP Outlet	Date -Sampling	16/03/2021
Sample Quantity / Packing	5 L x 1 no. plastic can	Date - Receipt of sample	18/03/2021
Sampling Procedure	IS 3025 (Part 1):1987 Amds.1& APHA,23rd Ed.2017,1060 B,1-40	Date - Start of Analysis	18/03/2021
Order Reference	As per your Agreement dated 01.04.2020	Date - Completion of Analysis	22/03/2021

Sr.No.	Parameter	Result	Unit	Method
	CHEMICAL TESTING			
1	pH	7.88	-	IS 3025 (Part 11):1983, RA 2017
2	Total Suspended Solids	7	mg/L	IS 3025 (Part 17):1984, RA 2017
3	Biochemical Oxygen Demand (3 days, 27°C)	5	mg/L	IS 3025 (Part 44):1993, RA 2018
4	Chemical Oxygen Demand	20	mg/L	APHA, 23rd Ed., 2017, 5220-B,5-18
5	Total Dissolved Solids	86	mg/L	IS 3025 (Part 16):1984, RA 2017
6	Oil & Grease	<1	mg/L	APHA, 23rd Ed., 2017, 5520-B, 5-42
7	Sulphide (as H_2S)	<0.08	mg/L	APHA, 23rd Ed., 2017, 4500 –S2, D-4-193, F-4-197
8	Free Ammonia (as NH_3-N)	<0.1	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, F, 4-118
9	Phenolic Compounds (as C_6H_5OH)	<0.001	mg/L	APHA, 23rd Ed., 2017, 5530- B, 5-48 & C,5-50

Note: Sample ID E/03/21/0190 bear Two test reports, E/03/21/0190 and E/03/21/0190N respectively.

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TEST REPORT

Sample ID : E/03/21/0190	Report No. E/03/21/0190N	Report Date	23/03/2021
Name and address of Customer	**Atul Bioscience Ltd.** Plot No. N-37, Additional MIDC, Ambernath (East) 421506, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Treated Trade Effluent (Group : Pollution & Environment)
Sampling Location	ETP Outlet	Date -Sampling	16/03/2021
Sample Quantity / Packing	5 L x 1 no. plastic can	Date - Receipt of sample	18/03/2021
Sampling Procedure	IS 3025 (Part 1):1987 Amds.1& APHA,23rd Ed.2017,1060 B,1-40	Date - Start of Analysis	18/03/2021
Order Reference	As per your Agreement dated 01.04.2020	Date - Completion of Analysis	22/03/2021

Sr.No.	Parameter	Result	Unit	Method
	CHEMICAL TESTING			
1	Nitrate Nitrogen (as NO_3-N)	**0.13**	mg/L	APHA,23rd Ed.,2012, 4500 NH3, B & C, 4-110, 4-112

Note: Sample ID E/03/21/0190 bear Two test reports, E/03/21/0190 and E/03/21/0190N respectively.

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WORKROOM ENVIRONMENT MONITORING REPORT

Sample ID: WR/03/21/5735	Report No.: WR/03/21/5735	Report Date	20/03/2021
Name & Address of Customer	**Atul Bioscience Ltd.** Plot No. N-37, Additional MIDC, Ambernath (East) 421506 Maharashtra	Order Reference: As per PO No. MU1/2021/POS/EHR/00006 Dated 25.06.2020	
Sample Collected by	Laboratory	Sample Description/ Type	Workroom Environment (Group: Atmospheric Pollution Sub Group: Workroom Environment)
Sampling Location	Tank Farm	Date-Sampling	16/03/2021
Sample Quantity/ Packing	VOC: 1 no. Charcoal tube	Date-Receipt of Sample	18/03/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	18/03/2021
Duration of Sampling	15 min	Date-Completion of Analysis	20/03/2021

Parameter	Result	Limits as Per Second schedule of factories Act/OSHA# STEL (15 min)	Unit	Method
CHEMICAL TESTING				
Toluene	**469.1**	560	mg/m³	NIOSH 1501

STEL: Short Terms Exposure Limits
Note: Sample ID WR/03/21/5735 bear two test reports, WR/03/21/5735 and WR/03/21/5735N

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WORKROOM ENVIRONMENT MONITORING REPORT

Sample ID: WR/03/21/5735	Report No.: WR/03/21/5735N	Report Date	20/03/2021
Name & Address of Customer	**Atul Bioscience Ltd.** Plot No. N-37, Additional MIDC, Ambernath (East) 421506 Maharashtra	Order Reference: As per PO No. MU1/2021/POS/EHR/00006 Dated 25.06.2020	
Sample Collected by	Laboratory	Sample Description/ Type	Workroom Environment (Group: Atmospheric Pollution Sub Group: Workroom Environment)
Sampling Location	Tank Farm	Date-Sampling	16/03/2021
Sample Quantity/ Packing	VOC: 4 no. Charcoal tube	Date-Receipt of Sample	18/03/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	18/03/2021
Duration of Sampling	15 min	Date-Completion of Analysis	20/03/2021

Parameter	Result	Limits as Per Second schedule of factories Act/OSHA# STEL (15 min)	Unit	Method
CHEMICAL TESTING				
Isopropyl Alcohol	<0.1	-	mg/m³	By GC
Acetone	<0.1	2375	mg/m³	By GC
Ethyl Acetate	<0.1	-	mg/m³	By GC
Methanol	<0.1	-	mg/m³	By GC

STEL: Short Terms Exposure Limits
Note: Sample ID WR/03/21/5735 bear two test reports, WR/03/21/5735 and WR/03/21/5735N

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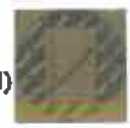

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WORKROOM ENVIRONMENT MONITORING REPORT

Sample ID: WR/03/21/5734	Report No.: WR/03/21/5734	Report Date	20/03/2021
Name & Address of Customer	**Atul Bioscience Ltd.** Plot No. N-37, Additional MIDC, Ambernath (East) 421506 Maharashtra	Order Reference: As per PO No. MU1/2021/POS/EHR/00006 Dated 25.06.2020	
Sample Collected by	Laboratory	Sample Description/ Type	Workroom Environment (Group: Atmospheric Pollution Sub Group: Workroom Environment)
Sampling Location	Plant II Ground Floor	Date-Sampling	16/03/2021
Sample Quantity/ Packing	VOC: 1 no. Charcoal tube	Date-Receipt of Sample	18/03/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	18/03/2021
Duration of Sampling	15 min	Date-Completion of Analysis	20/03/2021

Parameter	Result	Limits as Per Second schedule of factories Act/OSHA# STEL (15 min)	Unit	Method
CHEMICAL TESTING				
Toluene	**132.5**	560	mg/m³	NIOSH 1501

STEL: Short Terms Exposure Limits
Note: Sample ID WR/03/21/5734 bear two test reports, WR/03/21/5734 and WR/03/21/5734N

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WORKROOM ENVIRONMENT MONITORING REPORT

Sample ID: WR/03/21/5734	Report No.: WR/03/21/5734N	Report Date	20/03/2021
Name & Address of Customer	**Atul Bioscience Ltd.** Plot No. N-37, Additional MIDC, Ambernath (East) 421506 Maharashtra	Order Reference: As per PO No. MU1/2021/POS/EHR/00006 Dated 25.06.2020	
Sample Collected by	Laboratory	Sample Description/ Type	Workroom Environment (Group: Atmospheric Pollution Sub Group: Workroom Environment)
Sampling Location	Plant II Ground Floor	Date-Sampling	16/03/2021
Sample Quantity/ Packing	VOC: 4 no. Charcoal tube	Date-Receipt of Sample	18/03/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	18/03/2021
Duration of Sampling	15 min	Date-Completion of Analysis	20/03/2021

Parameter	Result	Limits as Per Second schedule of factories Act/OSHA# STEL (15 min)	Unit	Method
CHEMICAL TESTING				
Isopropyl Alcohol	**<0.1**	-	mg/m³	By GC
Acetone	**<0.1**	2375	mg/m³	By GC
Ethyl Acetate	**<0.1**	-	mg/m³	By GC
Methanol	**<0.1**	-	mg/m³	By GC

STEL: Short Terms Exposure Limits
Note: Sample ID WR/03/21/5734 bear two test reports, WR/03/21/5734 and WR/03/21/5734N

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NOISE LEVEL MEASUREMENT REPORT

Sample / Report No.	N/03/21/5710	Report Date	22/03/2021
Name and Address of Customer	**Atul Bioscience Ltd.** Plot No. N-37, Additional MIDC, Ambernath (East) 421506 Maharashtra		
Monitoring Done By	Laboratory	Sample Description /Type	DG Noise (Group: Atmospheric Pollution)
Order Reference	As per PO No. MU1/2021/POS/EHR/00006 Dated 25.06.2020	Date-Monitoring	15/03/2021

Sr. No.	Location	Noise Level Readings dB (A)				Average	Insertion Loss
		1	2	3	4		
1.	**DG Set**						
	DG Set (500 KVA) Open (0.5 meter from DG set acoustic) (Day time)	82.6	81.5	79.4	75.1	**79.9**	21.97
	DG Set (500 KVA) Close (0.5 meter from DG set acoustic) (Day time)	67.6	55.4	53.2	54.7	**57.73**	

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NOISE LEVEL MEASUREMENT REPORT

Sample / Report No.	N/03/21/5709	Report Date	22/03/2021
Name and Address of Customer	**Atul Bioscience Ltd.** Plot No. N-37, Additional MIDC, Ambernath (East) 421506 Maharashtra		
Monitoring Done By	Laboratory	Sample Description /Type	Ambient Noise (Group: Atmospheric Pollution)
Order Reference	As per PO No. MU1/2021/POS /EHR/00006 Dated 25.06.2020	Date-Monitoring	15/03/2021

Location	Time (h)	Results Noise Level dB (A) Fast Response	Results Noise Level dB (A) Slow Response	Method
A. Near Main Gate 1	1230 (Day Time)	69	66	CPCB Protocol for Ambient Level Noise Monitoring, July 2005 AEC/C/SAP/SAM/35 & 36
	2000 (Night Time)	57	55	
B. Near Dispersing Room	1240 (Day Time)	74	70	
	2010 (Night Time)	66	64	
C. Near ETP Plant	1250 (Day Time)	70	68	
	2020 (Night Time	68	67	
D. Near Plant III	1300 (Day Time)	74	70	
	2030 (Night Time	68	66	
E. Near Boiler House	1310 (Day Time)	67	66	
	2040 (Night Time	54	53	
F. Near Plant No. 1	1320 (Day Time)	69	66	
	2050 (Night Time	63	60	

Limits

As Per the Noise Pollution (Regulation & Control) Rules , 2000 (Rules 3 (1) and 4(1))

Area Type	Limits in dB (A) weighted scale	
	Day (6 a.m. to 10 p.m.)	Night (10 p.m. to 6 a.m.)
Industrial	75	70

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STACK EMISSION MONITORING REPORT

Sample ID: SA/03/21/5711	Report No.: SA/03/21/5711	Report Date	20/03/2021
Name and Address of Customer	**Atul Bioscience Ltd.** Plot No. N-37, Additional MIDC, Ambernath (East) 421506 Maharashtra		
Sample Collected by	Laboratory	Sample Description / Type	Stack Emissions (Group: Atmospheric Pollution Sub Group: Stack Emissions)
Sample Quantity/Packing	PM: thimble 1 no. SO_2:30 ml x 1 no. plastic bottle NO_2: 25 ml x 1 no. plastic bottle	Date –Sampling	15/03/2021
		Date - Receipt of Sample	18/03/2021
Sampling Procedure	IS 11255 (Part 1):1985, RA 2014, (Part 2): 1985, RA 2014,(Part 3):2008, RA 2014, (Part 7):2005 RA 2017	Date - Start of Analysis	18/03/2021
Order Reference	As per PO No. MU1/2021/POS/EHR/00006 Dated 25.06.2020	Date -Completion of Analysis	20/03/2021

Stack Details	Stack 1		**Unit**	
~Stack Identity	Coal Fired Boiler			
~Stack attached to	Boiler			
~Material of construction	M.S.			
~Stack height above ground level	36		m	
~Stack diameter	0.69		m	
~Stack shape at top	Round			
~Type of Fuel	Coal			
~Fuel Consumption	3		mt/d	
Parameter	**Result**	**Limits (as per MPCB consent)**	**Unit**	**Method**
CHEMICAL TESTING				
Flue Gas Temperature	**150**	-	°C	IS 11255 (Part 3):2008 R, RA 2014
Flue Gas Velocity	**9.36**	-	m/s	IS 11255 (Part 3):2008 R, RA 2014
Total Gas Quantity	**8872**	-	Nm^3/h	IS 11255 (Part 3):2008, RA 2014
Particulate Matter (PM)	**42**	150	mg/Nm^3	IS 11255 (Part 1): 1985, RA 2014
Sulphur Dioxide (SO_2)	**22.9**	-	mg/Nm^3	IS 11255 (Part 2):1985, RA 2014
	4.9	96	kg/d	
Oxides of Nitrogen (NO_2)	**40.8**	-	mg/Nm^3	IS 11255 (Part 7):2005, RA 2017

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STACK EMISSION MONITORING REPORT

Sample ID: SA/03/21/3357	Report No.: SA/03/21/3357N	Report Date	19/03/2021
Name and Address of Customer	**Atul Bioscience Ltd.** Plot No. N-37, Additional MIDC, Ambernath (East) 421506 Maharashtra		
Sample Collected by	Laboratory	Sample Description / Type	Stack Emissions (Group: Atmospheric Pollution Sub Group: Stack Emissions)
Sample Quantity/Packing	HCl: 30 ml x 1 no. plastic bottle	Date –Sampling	15/03/2021
		Date - Receipt of Sample	18/03/2021
Sampling Procedure	IS 11255 (Part 3):2008, RA 2014	Date - Start of Analysis	18/03/2021
Order Reference	As per PO No. MU1/2021 /POS/EHR/00006 Dated 25.06.2020	Date -Completion of Analysis	19/03/2021

Stack Details			**Unit**	
~Stack Identity	Stack 3			
~Stack attached to	Process Scrubber			
~Material of construction	M.S.			
~Stack height above ground level	6		m	
~Stack diameter	0.3		m	
~Stack shape at top	Round			
~Type of Fuel	-			
~Fuel Consumption	-		L/h	
Parameter	**Result**	**Limits (as per MPCB consent)**	**Unit**	**Method**
CHEMICAL TESTING				
Flue Gas Temperature	40	-	°C	IS 11255 (Part 3):2008, RA 2014
Acid Mist (HCl)	<1	-	mg/Nm³	Titrimetric Method

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STACK EMISSION MONITORING REPORT

Sample ID: SA/03/21/5712	Report No.: SA/03/21/5712	Report Date	22/03/2021
Name and Address of Customer	**Atul Bioscience Ltd.** Plot No. N-37, Additional MIDC, Ambernath (East) 421506 Maharashtra		
Sample Collected by	Laboratory	Sample Description / Type	Stack Emissions (Group: Atmospheric Pollution Sub Group: Stack Emissions)
Sample Quantity/Packing	PM: thimble 1 no. SO_2:30 ml x 1 no. plastic bottle NO_2: 25 ml x 1 no. plastic bottle	Date –Sampling	16/03/2021
		Date - Receipt of Sample	18/03/2021
Sampling Procedure	IS 11255 (Part 1):1985, RA 2014, (Part 2): 1985, RA 2014,(Part 3):2008, RA 2014, (Part 7):2005 RA 2017	Date - Start of Analysis	18/03/2021
Order Reference	As per PO No. MU1/2021/POS/ EHR/00006 Dated 25.06.2020	Date -Completion of Analysis	22/03/2021

Stack Details			**Unit**	
~Stack Identity	Stack 4			
~Stack attached to	D G Set 500 KVA			
~Material of construction	M.S.			
~Stack height above ground level	4.47		m	
~Stack diameter	0.12		m	
~Stack shape at top	Round			
~Type of Fuel	HSD			
~Fuel Consumption	20		L/h	
Parameter	**Result**	**Limits (as per MPCB consent)**	**Unit**	**Method**
CHEMICAL TESTING				
Flue Gas Temperature	**168**	-	°C	IS 11255 (Part 3):2008, RA 2014
Flue Gas Velocity	**9.11**	-	m/s	IS 11255 (Part 3):2008, RA 2014
Total Gas Quantity	**251**	-	Nm^3/h	IS 11255 (Part 3):2008, RA 2014
Particulate Matter (PM)	**37**	150	mg/Nm^3	IS 11255 (Part 1): 1985, RA 2014
Sulphur Dioxide (SO_2)	**22.9**	-	mg/Nm^3	IS 11255 (Part 2):1985, RA 2014
	0.14	-	kg/d	
Oxides of Nitrogen (NO_2)	**43.1**	-	mg/Nm^3	IS 11255 (Part 7):2005, RA 2017

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Disclaimer:
Information is supplied by the customer (~) and can affect the validity of results.

Ashwamedh Engineers & Consultants
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TC-5509

Ashwamedh Engineers & Consultants
Laboratory Services Division

AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/03/21/5706	Report No.: AA/03/21/5706	Report Date	31/03/2021
Name & Address of Customer	**Atul Bioscience Ltd.** Plot No. N-37, Additional MIDC, Ambernath (East) 421506 Maharashtra		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution Sub Group: Ambient Air Quality)
Sampling Location	Near Main Gate 1	Date-Sampling	15/03/2021 to 16/03/2021
Sample Quantity/ Packing	PM_{10}, BaP, Metals: Filter paper 1 x 3 no. $PM_{2.5}$: Filter paper 1 x 1 no. SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C_6H_6: 6 no. charcoal tubes CO: 1 no. Bladder	Date-Receipt of Sample	18/03/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	18/03/02021
Order Reference	As per PO No. MU1/2021/POS /EHR/00006 Dated 25.06.2020	Date-Completion of Analysis	31/03/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
7 km/h	NW	(Max./Min.): 65/58%	(Max./Min.):35/23°C	24 h

Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO_2)	8.4	80	µg/m³	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO_2)	26.6	80	µg/m³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM_{10}	76	100	µg/m³	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	51	60	µg/m³	USEPA CFR 40, Part 50, Appendix L
Ozone (O_3)	<19.6	180	µg/m³	ANNAA,3rd Ed., Method 411,Page no. 403,1988
Lead (Pb)	<0.02	1	µg/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2, Jun 1999
Carbon Monoxide (CO)	1.2	4	mg/m³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH_3)	<4	400	µg/m³	AEC/C/SAP/AA-7
Benzene (C_6H_6)	<1	5	µg/m³	IS 5182 (Part 11) : 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	IS 5182 (Part 12): 2004,RA 2009
Arsenic (As)	<0.3	6	ng/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2, Jun 1999

TWA Time Weighted Average
\# NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM_{10}, $PM_{2.5}$, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

Ashwamedh Engineers & Consultants

Nihad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by

End of Report

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Ashwamedh Engineers & Consultants
Laboratory Services Division

AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/03/21/5707	Report No.: AA/03/21/5707	Report Date	31/03/2021
Name & Address of Customer	**Atul Bioscience Ltd.** Plot No. N-37, Additional MIDC, Ambernath (East) 421506 Maharashtra		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution Sub Group: Ambient Air Quality)
Sampling Location	Near Gate no. 2	Date-Sampling	15/03/2021 to 16/03/2021
Sample Quantity/ Packing	PM_{10}, BaP, Metals: Filter paper 1 x 3 no. $PM_{2.5}$: Filter paper 1 x 1 no. SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C_6H_6: 6 no. charcoal tubes CO: 1 no. Bladder	Date-Receipt of Sample	18/03/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	18/03/02021
Order Reference	As per PO No. MU1/2021/POS /EHR/00006 Dated 25.06.2020	Date-Completion of Analysis	31/03/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
7 km/h	NW	(Max./Min.): 65/58%	(Max./Min.):35/23°C	24 h

Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO_2)	7.4	80	µg/m³	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO_2)	30	80	µg/m³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM_{10}	81	100	µg/m³	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	44	60	µg/m³	USEPA CFR 40, Part 50, Appendix L
Ozone (O_3)	<19.6	180	µg/m³	AWWA,3rd Ed., Method 411,Page no. 403,1999
Lead (Pb)	<0.02	1	µg/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2, Jun 1999
Carbon Monoxide (CO)	1.7	4	mg/m³	CPCB Guidelines, 37/2012-13, Page no.18
Ammonia (NH_3)	<4	400	µg/m³	AEC/C/SAP/AA-7
Benzene (C_6H_6)	<1	5	µg/m³	IS 5182 (Part 11) : 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	IS 5182 (Part 12): 2004,RA 2009
Arsenic (As)	<0.3	6	ng/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2, Jun 1999

TWA Time Weighted Average
\# NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM_{10}, $PM_{2.5}$, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

Nihad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by

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TC-5509

Ashwamedh Engineers & Consultants
Laboratory Services Division

AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/03/21/5708	Report No.: AA/03/21/5708	Report Date	31/03/2021
Name & Address of Customer	**Atul Bioscience Ltd.** Plot No. N-37, Additional MIDC, Ambernath (East) 421506 Maharashtra		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution Sub Group: Ambient Air Quality)
Sampling Location	Near ETP Plant	Date-Sampling	15/03/2021 to 16/03/2021
Sample Quantity/ Packing	PM_{10}, BaP, Metals: Filter paper 1 x 3 no. $PM_{2.5}$: Filter paper 1 x 1 no. SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C_6H_6: 6 no. charcoal tubes CO: 1 no. Bladder	Date-Receipt of Sample	18/03/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	18/03/02021
Order Reference	As per PO No. MU1/2021/POS /EHR/00006 Dated 25.06.2020	Date-Completion of Analysis	31/03/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
7 km/h	NW	(Max./Min.): 65/58%	(Max./Min.):35/23°C	24 h

Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO_2)	7.2	80	µg/m³	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO_2)	27	80	µg/m³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM_{10}	73	100	µg/m³	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	38	60	µg/m³	USEPA CFR 40, Part 50, Appendix L
Ozone (O_3)	<19.6	180	µg/m³	ANOVA,3rd Ed., Method 4II,Page no. 403,1998
Lead (Pb)	<0.02	1	µg/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2, Jun 1999
Carbon Monoxide (CO)	1.13	4	mg/m³	CPCB Guidelines, 37/2012-13, Page no.66
Ammonia (NH_3)	<4	400	µg/m³	AEC/C/SAP/AA-7
Benzene (C_6H_6)	<1	5	µg/m³	IS 5182 (Part 11) : 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	IS 5182 (Part 12): 2004,RA 2019
Arsenic (As)	<0.3	6	ng/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2, Jun 1999

TWA Time Weighted Average

\# NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM_{10}, $PM_{2.5}$, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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Maharashtra Pollution Control Board
महाराष्ट्र प्रदूषण नियंत्रण मंडळ

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

Unique Application Number
MPCB-ENVIRONMENT_STATEMENT-0000025815

Submitted Date
10-09-2020

Company Information

Company Name
ATUL BIOSCIENCE LIMITED

Application UAN number
MPCB-CONSENT-0000009042

Address
Plot No. N-37, Addl. Ambernath Industrial area, anand nagar MIDC, Ambernath (E), Dist- Thane. 421506

Plot no
N-37

Taluka
Ambernath

Village
Ambernath (MIDC area)

Capital Investment (In lakhs)
46.43 Crore

Scale
LSI

City
Ambernath

Pincode
421506

Person Name
Mr. Kailas Murlidhar Bharambe

Designation
GM-Manufacturing & Technology

Telephone Number
0251-2621667

Fax Number
NA

Email
kailas_bharambe@atulbio.co.in

Region
SRO-Kalyan II

Industry Category
Red

Industry Type
R58 Pharmaceuticals

Last Environmental statement submitted online
yes

Consent Number
BO/AST/RO-KN/UAN No.MPCB-CONSENT-0000009042/R/CC-1703001445

Consent Issue Date
21/03/2017

Consent Valid Upto
31/12/2020

Product Information

Product Name	*Consent Quantity*	*Actual Quantity*	*UOM*
Chlorobutanol	30	14.814	MT/A
Metoprolol Tartrate	24	13.289	MT/A
Metoprolol Succinate	5	5	MT/A
Fluconazole	5	5	MT/A

By-product Information

By Product Name	*Consent Quantity*	*Actual Quantity*	*UOM*
NA	NA	NA	MT/A

1) Water Consumption in m3/day

Water Consumption for	*Consent Quantity in m3/day*	*Actual Quantity in m3/day*
Process	7	7
Cooling	24	24

Domestic	10	10
All others	10	10
Total	51	51

1) Effluent Generation in CMD / MLD

Particulars	***Consent Quantity***	***Actual Quantity***	***UOM***
Trade Effluent	6	5	CMD
Domestic Effluent	6	5	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***
API	7	7	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***
List Enclosed	List Enclosed	List Enclosed	Kg/Annum

4) Fuel Consumption

Fuel Name	***Consent quantity***	***Actual Quantity***	***UOM***
Coal	9600	3035.78	
Diesel	20	0.99	Ltr/Hr
FO	40	0.07	Ltr/Hr

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

[A] Water

Pollutants Detail	***Quantity of Pollutants discharged (kL/day)***	***Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour***	***Percentage of variation from prescribed standards with reasons***		
	Quantity	***Concentration***	***%variation***	***Standard***	***Reason***
COD	5	130.5	0	250	NA
BOD	5	37.5	0	100	NA
TDS	5	112	0	2100	NA
Suspended solid	5	22	0	100	NA
Oil & Grease	5	2	0	10	NA
Free Ammonia	5	0.2	0	5	NA
Nitrate	5	1.86	0	20	NA
Sulphide	5	0.15	0	2	NA
Phenolic compound	5	0	0	1	NA

[B] Air (Stack)

Pollutants Detail	***Quantity of Pollutants discharged (kL/day)***	***Concentration of Pollutants discharged(Mg/NM3)***	***Percentage of variation from prescribed standards with reasons***		
	Quantity	***Concentration***	***%variation***	***Standard***	***Reason***
Total Particulate matter (TPM)	NA	45.05	0	150	NA
SO2	NA	9.45	0	96	NA

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
29.1 Process wastes or residues	0.348	0.092	MT/A
28.6 Spent solvents	1.550	0	KL/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
35.3 Chemical sludge from waste water treatment	0.555	0.188	MT/A

SOLID WASTES

1) From Process

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

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	NA	NA	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	0	0	MT/A

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
35.3 Chemical sludge from waste water treatment	0.188	MT/A	NA (Disposed to CHWTSDF)
29.1 Process wastes or residues	0.092	MT/A	NA (Disposed to CHWTSDF)

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
NA	NA	MT/A	NA

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)
Recycle of treated water for utilities	4.5	0	0	0	0.25	0

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

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)

Periodic Environmental monitoring carried out by authorized laboratory	Monitoring of stack emission, noise level and water quality	2.1
Hazardous waste disposal	H.W dispose through CHWTSDF	0.3
O & M of online effluent monitoring system	Compliance to MPCB consent water quality	1.2
ETP Equipment maintenance	Smooth operation of ETP	1.5

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	***Environmental Protection Measures***	***Capital Investment (Lacks)***
Installation of Membrane Bioreactor	To improve ETP performance by ultrafiltration	145

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

Particulars

1)Dedicated manpower is deployed for the operation of ETP. 2) In house well-equipped lab for effluent analysis

Name & Designation

Mr Kailas M. Bharambe