EMCURE PHARMACEUTICALS LIMITED,

PLOT NO D-24/24-1, MIDC, Kurkumbh, Tal. Daund, Dist. Pune

COMPLIANCE OF ENVIRONMENT CLEARANCE TERMS AND CONDITIONS

Sr. No	Terms and Conditions	Compliance status
I	This environment clearance is issued subject to achieve the Zero Liquid Discharge (ZLD)	We have commissioned the Reverse Osmosis System. For further details refer **Annexure-A**
Ii	Project proponent shall provide Separate Sewage Treatment Plant to treat the Domestic effluent	We have commissioned the Separate Sewage treatment plant. For further details refer **Annexure-B**
Iii	Project proponent to take utmost precaution for the health and safety of the people working in the unit as also for the protecting the environment	We have taken utmost precaution for the health & safety of the people working in the unit & protecting the environment, for details refer **Annexure-C**
Iv	No additional land shall be used / acquired for any activity of the project without obtaining proper permission.	No additional acquirement of land under this project
V	For controlling fugitive natural dust, regular sprinkling of water and wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.	Will be ensured as suggested
Vi	Proper housekeeping programmers shall be implemented	We have implemented
Vii	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of	Will be followed
Viii	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (if applicable)	Stacks are provided with adequate height
Ix	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.	The rainwater harvesting system is in place.
X	Arrangement shall be made that effluent and storm water does not get mixed.	We have separate lines for Effluent, no storm water mix in effluent & will be extend to project area.
Xi	Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the MPCB.	We have water supply from MIDC Kurkumbh.
xii	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	Maintaining the noise level as per standards & required PPEs are provided to employees.
Xiii	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.	Ambient noise level monitoring is done periodically by MoEFCC approved laboratory. Reports are attached as **Annexure- D**

Xiv	Green belt shall be developed and maintained around the plant periphery. Green belt development shall be carried out considering CPCB guidelines including selection of plant species and in the consultation with local DFO/Agri dept.	Green belt area of 30691 Sq.M. is at place and plant species are as per the guidelines.
Xv	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.	Gas detection system is provided for early detection.
Xvi	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories act.	Pre-employment and periodic medical examination is carried out.
Xvii	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	We have provided Fire Alarm system, fire extinguishers, Sprinkler system and Fire hydrant system, proper earthing and bonding equipment's, self-contained breathing apparatus, breathing airline respirator, fire suit. We have on site emergency plan to handle the emergency.
xviii	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous waste in accordance with the hazardous waste (Management and Handling) Rules, 2003 (Amended). Authorization from MPCB shall be obtained for collection/ treatment/ storage & disposal of hazardous wastes.	We are having MPCB Consent to operate No. BO/CAC-Cell/UAN No.:68350/O, R&A /17th CAC-2001002066 dated 30.01.2020 and valid up to 30/04/2024. Consent copy attached as **annexure- E**
Xix	The company shall undertake following Waste Minimization Measures: 1. Metering of quantities of active ingredients to minimize waste. 2. Reuse of by products from the process as raw material or as raw material substitutes in the other process. 3. Maximizing the Recoveries 4. Use of automated material transfer system to minimize spillage.	Elaborated plan is in place for yield improvement & waste minimization. Recovery & reuse of solvents as and where required. Automated material transferred systems are in the place.
Xx	Regular Mock drills for the onsite emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on site management plan shall be ensured.	On Site Emergency Plan available and mock drill are regularly conducted. Last Mock drill was conducted on 24 Aug 2022. Copy of the same is attached as **annexure-F**
Xxii	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	We have set up of qualified staff in the place.
Xxii	Separate fund shall be allocated for implementation of environmental protection measures / EMP along with item wise break up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year wise expenditure should reported to the MPCB and this department	Separate fund being allocated to implementation of environment protection measures & fund is not restricting for Environment protection. Environment management plan is in the place.

xxiii	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 the 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://cc.maharashtra.gov.in	We had given the advertisement in two local news papers. Details submitted along with June-2017 report.
xxiv	Project Management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard copy and soft copies to the MPCB and this department, on 1st June and 1st December of each calendar year.	Half yearly compliance report being submitted as per scheduled.
xxv	A copy of Clearance letter shall be send 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.	Copy of EC is submitted to local bodies. Details submitted along with June-2017 report.
Xxvi	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitoring data on the website and shall update the same periodically. It shall simultaneously be send to the Regional Office of MoEF, the respective zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO2, NOx (ambient levels as well as stack emissions) or critical sartorial parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Periodically Monitoring reports are attached as **Annexure- G**
xxvii	Project proponent shall also submit Six monthly on the status of the compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as email) to the respective regional office of MoEF, the respective zonal office of CPCB & SPCB.	Half yearly compliance report being submitted as per schedule
xxviii	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 website of the company along with the status of EC conditions and shall also be sent to the respective Regional Offices of MoEF by email.	Complied

List of Annexure

Sr. No	Details	Annexure No
1	Technical Details of Zero Liquid Discharge	Annexure- A
2	Technical Details of Sewage Treatment Plant	Annexure- B
3	Project proponent to take utmost precaution for the health and safety of the people working in the unit as also for the protecting the environment	Annexure- C
4	Ambient Noise level monitoring reports	Annexure- D
5	Copy of Consent	Annexure- E
6	Copy of Mock Drill Report	Annexure- F
7	Copy of Monitoring Report	Annexure- G

Annexure-A

Technical Details of Zero Liquid Discharge

- **Zero Liquid Discharge Scheme consists:**

1. **Pretreatment of ETP treated Effluent**
2. **Reverse Osmosis System**
3. **Use of R O Permeate**
4. **Treatment of RO Reject at MEE/ Evaporator**

1. Pretreatment of ETP treated Effluent:

- Design Basis:
- Pretreatment of ETP treated Effluent: - 160 CMD

Sr. No.	Inlet- Feed Characteristics	Standards
1	Flow	160 CMD
2	Turbidity	100 NTU
3	T.S.S	150 Mg/L
4	pH	6.5 – 7.5
	Outlet	
1	Flow	144 CMD
2	Turbidity	25 NTU
3	T.S.S	30 Mg/L
4	pH	6.5 – 7.5

- Description of Pretreatment System:

Flash Mixer & Clariflocculator:

The waste water pumped to Flash Mixer where Alum dosed, further it taken to Clariflocculator wherein Poly dosing is done in Clariflocculator. The theory of operation of this unit is based on Coagulation & flocculation for settling of suspended solids. The sludge thus generated taken to Existing Sludge Handling system. Further the Treated waste water taken to feed tank of RO System.

2. Reverse Osmosis System: -

➢ **Design Basis:**

Sr. No.	Inlet- Feed Characteristics	Standards
1	Flow	160 CMD
2	Turbidity	25 NTU
3	T.S.S	30 Mg/L
4	T.D.S	1800 Mg/L
5	pH	6.5 – 7.5
	Outlet	
1	Permeate Flow	144 CMD
2	Turbidity	BDL
3	T.S.S	BDL
4	T.D.S.	<50
5	pH	6.5 – 7.5
6	% Recovery	91%

➢ **Reverse Osmosis System:** 160 CMD

➢ Description of Reverse Osmosis Treatment System: The RO system design in 02 stages:

In Ist Stage there are 02 passes. Collected pretreated effluent is taken in Ist stage RO system through sand filter and cartridge filter by high pressure pump. In the Ist Pass of Ist stage RO, effluent is treated & recovery of permeate around 85% & reject is 15%. The reject of Ist pass is send to IInd pass RO for further treatment. And get further enhanced 9% recovery of permeate in this stage. Total recovery is 94%. The permeate from Ist & IInd Pass collected in storage tank. Ist stage RO treated permeate is further passed through IInd stage RO system i.e. from polishing RO. For further clarity of permeate. Recovered permeate is stored in treated water tank for further use.

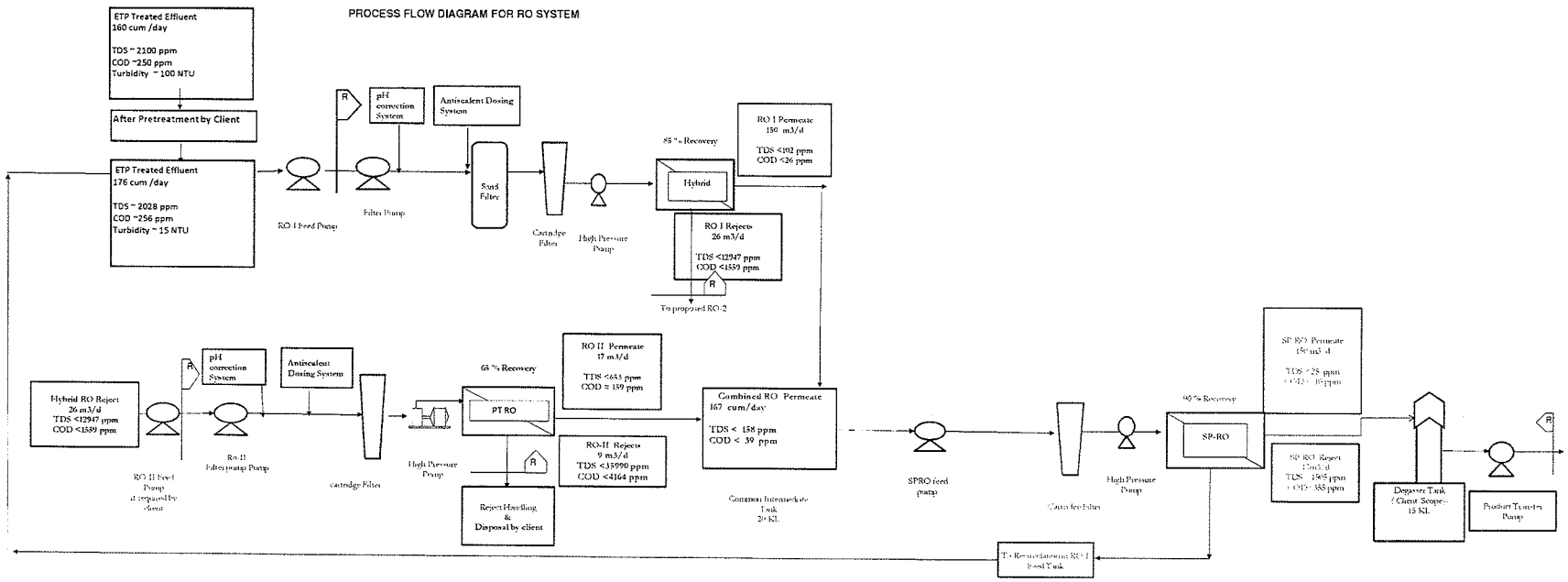
3. Use of RO Permeate: Permeate water from R O is recycled for utility like Cooling tower & Boiler etc.

4. Treatment of RO Reject at Evaporator:

Reject from R O system is treated in forced recirculation Evaporator / MEE. After evaporation the condensate is send to ETP for further treatment & Concentrate residue is send CHWTSDF for disposal.

Name: Emcure Pharma Kurkumbh, Pune

PROCESS FLOW DIAGRAM FOR RO SYSTEM



Annexure-B

Technical Details of Sewage Treatment Plant

A. DESIGN BASIS

- **SEWAGE TREATMENT PLANT: - 75 CMD**

Sr. No.	Design Parameters	Inlet	Outlet at STP
1	Design Flow	75CMD	
2	pH	6.5-7.5	6.5 to 8.5
3	BOD (mg/lit)	200-250	≤30
4	COD (mg/lit)	400-500	≤100
5	TSS (mg/lit)	150-200	≤20
6	Oil & Grease (mg/lit)	<10	≤10
7	TN (mg/lit)	<40	≤10
8	TKN (mg/lit)	<30	≤5
9	Fecal Coli forms	---	<100

By considering standards of outlet BOD ≤50 and COD ≤100, STP will consisting Ozonation System for reduction of COD & BOD of the treated sewage at desired limits. Ozonation System is a disinfection process, generally used to destroy bacteria and viruses by reducing the COD & BOD of the water. Also being strong oxidizing agent is used for reduction/removal of color from the treated effluent, reduction in BOD and COD in the effluent.

Salient features of the proposed plant based on MBBR technology-

- Aerobic treatment is of attached growth type and hence a chance of wash-off of the system in case of peak load is completely avoided.
- The aerobic treatment plant is based on FAB technology with high bio-film surface area and high loading rates hence the footprint of the plant is very small.
- Being an attached growth system in aerobic digester, it generates fully digested minimum excess sludge hence sludge handling problems are minimized.
- Being a modular plant, it's easy for operation.
- Odorless operation with a self-regulating system.

➢ **The treatment scheme is split into three distinct parts:**

1. Pre-treatment, which comprises of collection, screening and anaerobic treatment in septic tank.

2. Biological aerobic treatment followed by clarification

3. Tertiary treatment comprising of sodium hypochlorite addition, dual media pressure filtration and activated carbon filtration followed by UV treatment.

➢ **Detailed description of each treatment step is given below:**

a. PRE-TREATMENT-

The raw sewage is collected in collection tank were all floating and heavy particles are separated due to partition walls (Bar screening). In the septic tank the sewage will also undergo anaerobic treatment which helps in breaking all heavy impurities in the sewage.

b. BIOLOGICAL AEROBIC TREATMENT-

The organic pollutants in the raw sewage are measured in the form of Bio-chemical Oxygen Demand (BOD) and Chemical Oxygen Demand (COD). Aerobic bacteria bio-degrade the organic pollutants present in domestic sewage.

The Sewage Treatment Plant consists of an Aeration Tank, Secondary Tube Settler, Intermediate Tank and Sludge Drying Beds. Air Blowers are provided to supply air for proper growth of micro-organisms & to ensure dissolved oxygen supply to the aerobic bacteria in the Aeration Tank.

Aerated and biologically treated sewage will be taken to the Secondary Clarifier (tube settler). The Secondary Clarifier will be equipped with tube settler media. Treated supernatant from the Secondary Clarifier will overflow by gravity to the Intermediate Tank (Filter Feed Tank) for tertiary treatment.

c. TERTIARY TREATMENT-

The treated sewage from Secondary Clarifier will be collected in an intermediate storage tank (Filter Feed Tank). On the discharge of pump, Hypochlorite dosing will be carried out by Hypo Dosing Pump which helps in killing of all live micro-organisms in it. It will be then passed through Dual Media Filter and Activated carbon filter to remove all the suspended particles from the treated water. The tertiary treated water is passed through Ultra violet light for disinfection & treated water collected in Treated Water Tank, will be discharged for further use like gardening.

Annexure-C

Health / Safety / Environment

Occupational Health Plan

- **Health:**

- **Occupational Health Centers:** In respects of factory carrying on 'Hazardous process 'we have provided and maintained in good order an Occupational Health Center with the services and facilities as per scale laid down hereunder: -

1) A full time factory Medical Officer for factories.

2) A fully equipped OHC room is having impervious surface, adequate illumination & ventilation.

3) There are Three Nurse, and one sweeper-cum-ward boy throughout the working period;

4) The Occupational Health Center is having suitable equipments to manage medical emergencies.

- **Medical Examination:**

1) Pre employment & periodical medical examination carried out.

- **Ambulance Vans:**

Ambulance Van with suitable equipment, full time driver & helper, trained in first aid, for the purpose of transportation of serious cases of accidents for sickness is provided & maintained. The ambulance van is not be used for any purpose other than the purpose stipulated herein & will normally be stationed near the Occupational Health Center.

- **Safety of Employee –**

1. EHS policy is in the place.
2. Various engineering controls like AHU, GV, Scrubber, Dust collectors, fuming hoods are provided to minimize exposure of employee with material in plant.
3. Operations are carried out in closed loop conditions.
4. SOPs are in the place.
5. Work permit system is in place.
6. Training is conducted on different safety aspects.
7. Emergency action plan is in the place.
8. Safety sign boards are displayed at various locations.
9. PPEs like helmet, goggles, safety shoes, aprons, pressure suits, ear muffs etc. are provided.

❖ **Fire safety –**

➢ **Storage Arrangement:**

- **Flammable Solvents under PESO license stored in underground storage tanks:** Safety arrangements provided to underground storage area

1) Total storage capacity: 200KL
2) Nitrogen blanketing provided.
3) Flame arrestor and breather valve provided.
4) Tail Tail pit arrangement for leakage identification.
5) Cathodic protection provided to tanks.
6) Earth integrity monitor provided.
7) Double earthing bonding provided during dispensing.
8) All pumps and fittings are flame proof and PESO approved.
9) Close solvent transfer system provided
10) Underground tanks are installed in concrete dyke wall
11) Digital level indicator provided and all electrical equipments are of flame proof type
12) Appropriate PPE used during sampling and unloading.
13) Fire extinguisher and spill kit provided in same area.
14) Tanker unloading procedure with check list and SOP available
15) Manual call point provided nearby area.
16) Non sparking hand tools provided
17) Safe access ladder provided for sampling from Tankers
18) Appropriate Fire protection system provided

B) Solvent stored in Drums at Drum shed: Safety arrangements provided to Drum Shed-

1) Shed provided for storage area.
2) All electrical equipments are of flame proof type.
3) Fire extinguisher and spill kit provided in same area.
4) Drainage connected to collection tank
5) Eye wash shower provided
6) Stacker provided for drum movement
7) Hydrant point provided outside drum shed
8) Flame proof phone provided for communication.
9) Manual call point provided nearby area.

C) Raw material storage area: Safety arrangements provided to raw material storage area-

1) Raw stored in racks.
2) Stacker available for material movement.
3) Fire extinguishers provided.
4) General ventilation provided.
5) Heat/ Smoke detectors provided in same area.
6) All electrical equipments are of flame proof type.

7) All materials handled in double bags to avoid leakage spillage.
8) Material kept having proper labeling.
9) Manual call point provided in area.
10) Foam making branch, Foam compound, Fire escape hydrant point provided in stair case.
11) Emergency exit provided.

➢ **Mitigation Plan for Fire Risk Exposure Due to Solvent Storage:**

Scenario	Exposure	Severity	Remarks
Fire / Explosion	Is regarded as high due to presence of solvents like methanol, Toluene, Acetone, High speed Diesel	Medium to High	The risk is mitigated by best available engineering design techniques 1. This is licensed premises from PESO 2. The flammable solvents are stored in suitable underground storage tanks keeping safe distances and adequate fire resistant construction. 3. Underground solvent storage tanks are provided with dyke tank having tail pit. 4. Nitrogen blanketing with condenser arrangement is provided. 5. Storage tanks provided with breather valves, flame arrester & level indicators. 6. All the tanks have been provided with double earthing & smart earth static charge eliminator provided. All the lines are provided with earthing & bonding. 7. Special centrifugal pumps are provided. 8. Unloading of solvents is by gravity flow. 9. Dispensing from solvent tank to production point is in closed loop pipeline. Underground storage tank area is provided with lock & key. 10. Hazard classification board is displayed at entrance of underground storage tank area. 11. The risk protected by ring auto controlled fire hydrant system, portable fire extinguishers more than adequate numbers, Manual fire alarm system, smoke & heat detectors, and public address system installed throughout the plants. 12. Where ever required sprinklers have been provided. Throughout the plants hose reels are provided. Quick Response vehicle with required fitments like spare hoses, spare extinguishers, foam and emergency equipments. 13. Factory has identified departmental trained firefighting squad members besides security staff for mitigating the emergencies. CCTV coverage for clean room operations for detecting unsafe practices provided and control from EHS office
Lightening	Low	Medium	Lightening arrestors have been at strategic locations on the buildings and structures. Entire plant is provided with lightening grid and earthed. All plant vessels, pipelines and equipments earthed for elimination of static charges.

❖ **Provisions to handle emergency:**

a) **Fire Detection & protection:** Heat and smoke detectors: Heat and smoke detectors are provided at appropriate locations in the plants.

Total Number of Heat and smoke detectors- 875 Nos

Total Number of manual call points- 64 Nos.

Total number of hooter- 99 No's

PA System: - Emergency control center having Public Address system, speakers are installed at all blocks for communication during emergency.

For communication 45 sets of walky talky are available.

b) **Portable fire extinguishers:** Different type and capacity fire extinguishers are installed in the plants which are readily available for extinguishing different classes of fire. Plant personnel are trained in operation of these fire extinguishers and regular refresher training is arranged for plant personnel.

DCP Extinguisher	- 159 Nos
Foam Extinguishers	- 193 Nos
CO2 Extinguishers	- 209 Nos
Clean agent Extinguishers	- 06 Nos
Modular type Extinguishers	- 05 Nos

c) **Fire Fighting Arrangement:**

- Fire Hydrant Water tank capacity : 600KL
- Main Fire Pump rating : 273 ^{m3} / hour
- Diesel pump rating : 273 ^{m3} / hour
- Jockey pump : 15 ^{m3} / hour
- No. of Fire Hydrant posts : 100 Nos
- Hose reel : 59 Nos
- Sprinkler Systems : 07 Sets (542 Nos)
- No. of Water Monitor : 05 Nos
- Foam Compound : 3500 Lit
- Foam making branch with foam solution : 34 Nos
- Foam Mist gun : 01No

- Fire proximity suits : 02 Nos
- Fire retardant suits : 50 Nos
- Fire buckets : 72 Nos
- SCBA with spare cylinders : 16 Nos
- Nearest Fire Brigade station is about 3 Km : MIDC Kurkumbh
- Trained Fire Safety squad members : 59 Nos
- Trained First Aiders : 48 Nos

❖ Environment:

A) For Water pollution control-

1. Effluent is segregated at source as weak polluting stream, High polluting stream & Domestic effluent stream
2. ETP - Primary, Secondary & tertiary Effluent treatment plant with online effluent monitoring system connected to MPCB, CPCB server & working properly.
3. Sludge decanter & sludge drying system is in the place.
4. Evaporator Plant is in the place to treat the high polluting effluent stream.
5. Separate Sewage Treatment Plant is commissioned- Capacity-75CMD
6. Reverse Osmosis plant is commissioned – Capacity-160CMD
7. Total 30691 Sq.M. Green belt area is developed

B) For Air pollution control –

1. Provided pollution control systems i.e. sufficient stack height, multicyclon separator.
2. Environment monitoring is carried out periodically.

C) For Noise control-

1. Acoustic encloses are provided for noise polluting equipments & PPEs are provided to Employees working in this area.

D) Solid Waste Management:

1. Solid waste is segregated as Hazardous & Non- hazardous waste
2. Hazardous waste is disposed to CHWTSDF & authorized recycler regularly
3. Non- Hazardous waste is disposed to authorized re-processor regularly

Verified By Gnaeche
Date: 29 Sep 2022
Department EHS

Annexure-D

JV ANALYTICAL SERVICES

ANALYSIS REPORT

Client's Name & Address	**Report No.**	JV/22-23/08/272
To, **M/s. Emcure Pharmaceuticals Ltd.** Plot. No. D – 24, MIDC Kurkumbh, Tal- Daund, Dist-Pune – 413 802	**Issue Date**	18/08/2022
	Type of Monitoring	Ambient Noise
	Lab Reference No.	JV/EPL/22-23/08/272
	Date of Sampling	08/08/2022

Result

Sr. No.	Test Location	Unit	Day Time 08/08/2022		Night Time 08/08/2022	
			Time	Reading	Time	Reading
1	Near Main Gate	dB(A)	14:50	53.8	10:15	51.5
2	Near Material Gate	dB(A)	14:52	57.5	10:17	55.3
3	In-between ETP & Ware House	dB(A)	14:55	63.7	10:20	58.1
4	In-between Evaporator & API-3	dB(A)	15:00	58.9	10:24	55.5
5	In-between API-1 & API-7	dB(A)	19:42	55.5	10:57	53.5
6	In-between API-4 & API-5	dB(A)	19:25	57.3	10:38	50.9
7	In-between API-6 & SRP-2	dB(A)	19:28	55.1	10:41	51.2
8	In-between SRP-1 & PCC	dB(A)	19:31	53.5	10:46	49.2
9	In-between Scrap Yard & Cylinder Shed	dB(A)	19:37	60.1	10:54	55.1
10	In-between API-8 & Boiler House	dB(A)	19:15	61.7	10:29	60.5
11	Near DG Set Area	dB(A)	19:34	63.2	10:51	61.3
12	At North side compound wall in front of Boiler House	dB(A)	19:18	58.7	10:33	49.5

REMARKS/OBSERVATIONS:

- Day time means 6:00am to 10:00pm and night time means 10:00pm to 6:00am.
- As per prescribed standards the limit of Ambient Noise is 75 dB (A) in day time and 70 dB (A) in night time for industrial zone/area.
- Day time reading taken by Mr. Ketan Chavan & night time reading taken by Mr. Kishor Jagtap

For JV Analytical Services

JV ANALYTICAL SERVICES PUNE

Authorized Signatory

1. Results relate only to the sample tested.
2. Tested sample(s) drawn by the Laboratory.
3. Test report shall not be reproduced except in full, without written approval of the laboratory
4. This report, in full or in part, shall not be used for advertising or legal action.

---End of the Report---

Sr.	Instrument ID	Certificate No.	Calibrated By	Validity
1	Sound Level Meter (Model- MEXTECH SL-4012) ID No. JV/21-22/085	TECH/CAL/2022/02.L/1	Technocare Industrial Systems	20/02/2023

Verified By	Snaede
Date:	30-11-22
Department EHS	

Annexure-D.

ANALYSIS REPORT

Client's Name & Address	Report No.	JV/22-23/11/168
To, M/s. Emcure Pharmaceuticals Ltd. Plot. No. D – 24, MIDC Kurkumbh, Tal- Daund, Dist-Pune – 413 802	Issue Date	25/11/2022
	Type of Monitoring	Ambient Noise
	Lab Reference No.	JV/EPL/22-23/11/168
	Date of Sampling	14/11/2022

Result

Sr. No.	Test Location	Unit	Day Time 14/11/2022		Night Time 14/11/2022	
			Time	Reading	Time	Reading
1	Near Main Gate	dB(A)	11:38	52.1	11:30	48.8
2	Near Material Gate	dB(A)	11:40	59.6	11:32	52.3
3	In-between ETP & Ware House	dB(A)	11:43	61.8	11:35	59.1
4	In-between Evaporator & API-3	dB(A)	11:50	59.2	11:39	54.6
5	In-between API-1 & API-7	dB(A)	14:36	54.9	12:14	51.0
6	In-between API-4 & API-5	dB(A)	14:17	59.4	11:53	53.8
7	In-between API-6 & SRP-2	dB(A)	14:20	54.7	11:56	50.3
8	In-between SRP-1 & PCC	dB(A)	14:23	56.3	12:01	50.7
9	In-between Scrap Yard & Cylinder Shed	dB(A)	14:29	64.5	12:10	56.4
10	In-between API-8 & Boiler House	dB(A)	14:07	60.9	11:44	57.2
11	Near DG Set Area	dB(A)	14:26	66.0	12:06	60.6
12	At North side compound wall in front of Boiler House	dB(A)	14:10	57.8	11:48	48.1

REMARKS/OBSERVATIONS:

- Day time means 6:00am to 10:00pm and night time means 10:00pm to 6:00am.
- As per prescribed standards the limit of Ambient Noise is 75 dB (A) in day time and 70 dB (A) in night time for industrial zone/area.
- Day time reading taken by Mr. Rahul Dhonde & night time reading taken by Mr. Kishor Jagtap

For JV Analytical Services

Authorized Signatory

JV ANALYTICAL SERVICES PUNE

1. Results relate only to the sample tested.
2. Tested sample(s) drawn by the Laboratory.
3. Test report shall not be reproduced except in full, without written approval of the laboratory.
4. This report, in full or in part, shall not be used for advertising or legal action.

---End of the Report---

Sr.	Instrument ID	Certificate No.	Calibrated By	Validity
1	Sound Level Meter (Model- MEXTECH SL-4012) ID No. JV/21-22/085	TECH/CAL/2022/02/[illegible]	Technocare Industrial Systems	20/02/2023

Annexure- E

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 24010437/24020781/
24037124/24035273
Fax : 24044532/24024068/24023516
Email : cac-cell@mpcb.gov.in
Visit At : http://mpcb.gov.in

Kalpataru Point, 3rd & 4th floor, Sion- Matunga
Scheme Road No. 8, Opp. Cine Planet
Cinema, Near Sion Circle, Sion (E),
Mumbai - 400 022

Consent Order No. Format 1.0/BO/CAC-Cell/UAN No. 0000068350/O,R&A/17th *CAC-* 200100 2066
Date- 30/01/2020

To,
M/s. Emcure Pharmaceuticals Ltd.,
Plot Nos. D-24 & 24/1, MIDC Kurkumbh,
Tal. Daund, Dist. Pune.

Subject: Grant of Consent to 1st Operate for expansion, renewal of Consent to Operate and amalgamation under Red/ LSI category.

Ref.: 1. Previous Consent to Operate No. Format 1.0/BO/CAC-Cell/UAN No. 0000022776/3rd CAC-1806000108 dtd. 02/06/2018.
2. Minutes of the Consent Appraisal Committee meeting held on 25/11/2019.

Your application UAN No. 0000068350
Dated- 05/03/2019
For: Grant of Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the Consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. The Consent to Operate is granted for a period up to 30/04/2024.
2. The actual capital investment of the industry is Rs. 345.67 Crs (Previous- Rs. 286.69 Crs + Expansion- Rs. 59.28 Crs) as per C.A. Certificate submitted by the industry.
3. The Consent is valid for the manufacture of-

Sr. No.	Product Name	Maximum Quantity & UoM
1	ARV Products	20 MT/M (From Sr. No. 1 to 9)
2	Cardiovascular	
3	CNS products	
4	Anti Hypertensi	
5	Anti Cholesterol	
6	Synthetic organic chemical	
7	Intermediates	
8	Haemantic	
9	Phytochemicals	
10	Anti-glaucoma	40 MT/M (From Sr. No. 10 to 46)
11	Anti-malaerial	
12	Anti-ulcerative	
13	Anti-inflammatory	
14	Non-steroidal anti-inflammatory	
15	Antiviral	
16	Food additive	

17	Calcium Supplement
18	Anti-hyperphosphatemic agent
19	Anxiolytics
20	Anti-cancer
21	Anti-obesity Agent
22	Anti-hyperammonemic
23	Anti-depressant
24	Anti-convulsant
25	Anorexic
26	Anti-psychotic
27	Anti-inflammatory, analgesic
28	Anti-xiolytic
29	Anti-arrhythmic
30	Anti-emetic
31	Astringent
32	Anti-anginal
33	Anti-asthmatic
34	Anti-androgen
35	Anti-neoplastic
36	Anti-spasmodic
37	Anti-parkinsonian
38	Anti-thrombotic
39	Bone resorption inhibitor
40	Chelating Agent
41	Class I antiarrhythmic
42	Immunosuppressant
43	Non-nutritive sweetener
44	Anesthetic
45	Nootropic
46	Neuroprotective

4. Conditions under Water (P& CP), 1974 Act for discharge of effluent:

Sr. No.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1	Trade effluent	242	As per Schedule-1	Recycle/ reuse 93 CMD of treated effluent for cooling tower make up, fire-fighting, air-conditioning, for utility purposes etc. and discharge remaining into CETP
2	Domestic effluent	42	As per Schedule-1	

5. Conditions under Air (P & CP) Act, 1981 for air emissions:

Sr. No.	Description of stack/ source	Number of Stack	Standards to be achieved
1	Boilers 2 Nos.	01	As per Schedule-II

2	Process vents (50 Nos.)	50	As per Schedule-II
3	D.G. Sets (500, 1010 & 1500 KVA)	03	As per Schedule-II

6. Conditions about Non Hazardous Waste:

Sr. No.	Type of waste	Quantity &UoM	Treatment	Disposal
1	Paper, cleaned drums & carboys, empty boxes, wooden & garbage etc.	1 MT/M	--	By sale to authorized re-processor
2	MS, Aluminium foil, Papers, empty boxes & Plastic Garbage, Wood, Cleaned drums, Carboys etc.,	60 MT/M	--	Sale to Auth. Recycler
3	Ash from Briquette Boiler	75 MT/M	--	Sale to Brick Manufacturers

7. Conditions under Hazardous & Other Wastes (M & TM) Rules, 2016 for treatment and disposal of hazardous waste:

Sr. No.	Type of Waste	Category	Quantity	UoM	Treatment	Disposal
1	Used/spent oil	5.1	12,000	Lit/A	Recycle	By sale to Auth. Party/ re-processor
2	Distillation Residue	20.3	113	MT/A	Incineration	CHWTSDF
3	Spent Carbon/ Spent Catalyst	28.2	70	MT/A	Recycle/ Incineration	Sale to Auth. Re-processor/ CHWTSDF
4	Off specification products	28.4	27	MT/A	Incineration	CHWTSDF
5	Date-expired products	28.5	8.5	MT/A	Incineration	CHWTSDF
6	Spent organic solvents	28.6	15,400	MT/A	Recycle	Sale to Auth. re-processor
7	Chemical sludge, oil grease skimming residues from ETP	35.3	1,000	MT/A	Secured Landfill	CHWTSDF
8	Residues & wastes	28.1	13	MT/A	Incineration	CHWTSDF
9	Contaminated aromatic, aliphatic or napthenic Solvent	20.1	25	MT/A	Incineration	CHWTSDF
10	Off specification, discarded & expired material under Narcotic class	--	5	MT/A	Incineration	CHWTSDF
11	Glsswool, Insulation foam & thermocole etc.	--	10	MT/A	Recycle/ Secured Landfill	CHWTSDF

The applicant shall ensure disposal to actual user having permission under Rule 9 of Hazardous & Other Waste (M & TM) Rules, 2016.

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.

9. This consent should not be constructed as exemption from obtaining necessary NOC/ permission from any other Government authorities.

10. Industry shall recycle/ reuse 93 CMD of treated effluent for cooling tower make up, fire-fighting, air-conditioning, for utility purposes etc. and discharge remaining treated effluent to CETP for further treatment & disposal.

11. Industry shall not produce excess products or new products unless obtaining Environment Clearance & Consent to Operate from the Board.

12. Industry shall extend existing Bank Guarantees towards operation & maintenance of pollution control systems and compliance of the Consent conditions.

For and on behalf of the
Maharashtra Pollution Control Board

(E. Ravendiran, IAS)
Member Secretary

Received Consent Fee of-

Sr. No.	Amount (Rs)	DD/ DR/ RTGS/ NEFT/ TRXN No.	Date	Drawn on
1	Rs. 34,56,699/-	TXN1904001148	11/04/2019	e-payment

Copy to:

1. Regional Officer (Pune) / Sub-Regional Officer (Pune-I), M.P.C. Board, Pune.
   -They are directed to ensure the compliance of the Consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk-for record & website updating purpose.

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

1) A] As per your application, you have provided the Effluent Treatment Plant (ETP) with the design capacity of 300 CMD consisting of primary, secondary & tertiary treatment for low BOD stream and high BOD stream is treated in stripper & evaporator.

B] The Applicant shall operate the effluent treatment plant (ETP) to treat effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent:

Sr. No.	Parameters	Limiting Concentration in mg/l, except for pH
01	pH	5.5 to 9.0
02	Oil & Grease	10
03	BOD (3 days 27°C)	100
04	Suspended Solids	100
05	COD	250
06	Phenol	1.0
07	Chloride	600
08	Sulphate	1000
09	TDS	2100
10	Phosphate as P	5.0
11	Zinc	5

C] The 93 CMD treated effluent shall be recycled/ reused for cooling tower make up, fire-fighting, air-conditioning, for utility purposes etc. and remaining shall be discharged into CETP for further treatment & disposal. In no case, effluent shall find its way outside Company's premise.

2) A] As per your Consent application, you have provides STP of designed capacity 75 CMD based on MBBR technology for the treatment of 42 CMD sewage.

B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent:

(1)	Suspended Solids.	Not to exceed	50 mg/l.
(2)	BOD 3 days 27°C.	Not to exceed	30 mg/l.
(3)	COD	Not to exceed	100 mg/l.

C] The treated sewage shall be recycled for flushing, fire-fighting, cooling tower make up and gardening purpose etc. There shall not be any discharge directly/indirectly outside the factory premises.

3) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or/and extension or addition thereto.

4) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.

5) The Applicant shall The Applicant shall install water meters for consuming water as follows:

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1	Industrial Cooling, spraying in mine pits or boiler feed	254
2	Domestic purpose	50
3	Processing whereby water gets polluted & pollutants are easily biodegradable	243
4	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	00
5	Agricultural/Gardening	00

6) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance/ CREP guidelines.

Schedule-II

Terms & conditions for compliance of Air Pollution Control:

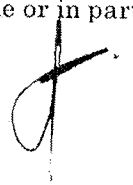
1. As per your application, you have installed the Air pollution control (APC)system and also erected following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity &UoM	S%	SO_2 Kg/Day
1	Boiler 6 TPH (Standby)	--	30	FO	500 Kg/Hr	4.5	1,080
2	Boiler 7 TPH	Multi cyclone separator		Briquette	550 Kg/Hr	0.06	15
3	Process Stacks (20 Nos.)	Dust collectors	10 each	NA	NA	NA	NA
4	Process Stacks (30 Nos.)	Dust collectors	10 each	NA	NA	NA	NA
5	DG Set (500 KVA)	Stack	6.5	HSD	100 Kg/Hr	1	
6	DG Set (1010 KVA)	Stack	6.5	HSD	400 Kg/Hr	1	
7	DG Set (1500 KVA)	Stack	6.5	HSD	400 Kg/Hr	1	

2. The Applicant shall provide Specific Air Pollution control equipment as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines.
3. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Total Particulate matter	Not to exceed	150 mg/Nm^3.
NOx	Not to exceed	50 ppm
Acid Mist	Not to exceed	35 mg/Nm^3.

4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
5. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).



Schedule-III

Details of Bank Guarantees

Sr. No.	Consent (C to E/O/R)	Amt. of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to O/ R (Amalgamation)	Rs. 5 Lakh	Existing	Towards O&M of pollution control systems and towards compliance of the Consent conditions	30/04/2024	Up to 31/07/2024

Schedule-IV

General Conditions:

1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
2) If the MIDC pipeline is broken/ overflowing chamber, in such cases industry shall not discharge their treated effluent into MIDC drain, it shall be sent to CETP by tanker.
3) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
4) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
5) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipment, the production process connected to it shall be stopped.
6) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
7) The firm shall submit to this office, the 30th day of September every year , the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
8) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous & Other Waste (M&TM) Rules, 2016, which can be recycled/processed/reused/recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
9) The industry should comply with the Hazardous& other Waste (M,H& TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous & other Waste (M,H & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
10) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
11) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.**
12) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act,1981 and Environmental Protection Act,1986 and industry specific standard under EP Rules 1986 which are available on MPCB website(www.mpcb.gov.in).
13) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
14) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
15) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
16) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control

system. A register showing consumption of chemicals used for treatment shall be maintained.

17) Conditions for D.G. Set
   a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
   b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
   c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper sitting and control measures.
   d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
   e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use
   f) D.G. Set shall be operated only in case of power failure.
   g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
   h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel.
18) The industry should not cause any nuisance in surrounding area.
19) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
20) The applicant shall maintain good housekeeping.
21) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a statement on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end, with the Environment Statement.
22) The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
23) The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipment provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
24) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
25) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
26) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 16.11.2009 as amended.

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Annexure- F

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MOCK DRILL OBSERVATION CHECK LIST

Format No.	:	KEH-013/F3/01		
Effective Date	:	10 JUN 2021	Page No.	: Page 1 of 4

Date: 24.08.2022 Time: 11:40 Hrs.

Name of the Area/Plant: APZ-5 MFA-06 Reaction area.

Emergency Scenario: Static fire occured during feeding to centrifuge (CF-1303) IPA Solvent.

Names of the Mock Drill Observer:	Designation:	Location:
1. Mr. Jaywant Veerkar	Asst. production	Emergency control centre.
2. Mr. Somnath Ahire	Executive production	Incident site
3. Mr. Yashpal Thotade	DGM- production	Incident site
4. Mr. Anand Kulkarni	AM- Engg.	Assembly point 02.
5. Mr. Rahul Morgaonkar	AGM- HR	Main Gate and Ecc
6. Mr. Devendra Puranik	Asst Manager- HR	Assembly point 03
7. Mr. Santosh Sangwe	Executive EHS	OHC

* Refer Attachment-1

S.No.	Observations	Time	Remarks
1	When the Observer identified the emergency situation.	11:40	Static fire during CF-1303 filtration at near feeding line.
2	What time the observer has shouted /Break the Fire alarm MCP.	11:40	Ground floor MCP activated by Mr. Tejas Patil.
3	What time the Fire alarm has given siren and When the people alerted	11:41	NA
4	Did anybody inform to the security/Electrical/production/EHS, regarding situation by Walky-talky/ by phone/by personal.	11:41	Mr. Tejas patil communicated through walky-talky to site main controller.
5	When Incident controller alerted & reached to the incident spot	11:41	N/A
6	Did other people alerted, after hearing the emergency, if yes, at what time	11:41	On public address system.

Signature	Prepared By	Checked By	Approved By
Date	04 May 2021	04 May 2021	
Name	Pramod Dhamale	Prakash Baba Ayyagari	Ananth Vinjamuri

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MOCK DRILL OBSERVATION CHECK LIST

Format No.	KEH-013/F3/01		
Effective Date	10 JUN 2021	Page No.	Page 2 of 4

S.No.	Observations	Time	Remarks
7	What time the fire extinguishers/ spill control kits were brought to the affected area.	11:42	Fire extinguishers foam - 113
8	When the Main controller reached to the site or Emergency Control Centre	11:41	N/A
9	What time the Safety squad Members / Fire fighters team have entered for extinguish the fire	11:42	08 Nos. Safety Squad members are reached at site for controlling the emergency.
10	What time the Fire Hydrant system was started	11:43	SH-24 Hydrant point is used for extinguish the fire.
11	Have the First Aid team reached the incident area and started first aid.	11:42	02 Nos. first aid members arrived at site.
12	What time the Ambulance arrived at the incident area.	11:44	Mr. Deepak Bhandalkar (security) Ambulance driver.
13	What time the Quick Response Vehicle (QRV) arrived at the incident area.	N/A	QRV not reached at incident area.
14	Is there any casually shifted to OHC, if so what time?	11:46	Mr. Sachin Kharmale (production)
15	Has the Main Controller given instruction to declare Onsite Emergency through Siren?	11:41	N/A
16	What time people moved to assembly point based upon wind direction	11:43	N/A

	Prepared By	Checked By	Approved By
Signature			
Date	04 May 2021	04 May 2021	11 MAY 2021
Name	Pramod Dhamale	Prakash Baba Ayyagari	Ananth Vinjamuri

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MOCK DRILL OBSERVATION CHECK LIST

Format No.	: KEH-013/F3/01		
Effective Date	: 10 JUN 2021	Page No.	: Page 3 of 4

S.No.	Observations	Time	Remarks
17	What time people arrived to assembly point based upon wind direction.	11:45	N/A
18	What time HR/ Security started head count of the people	11:45	N/A
19	At what time head count was over	11:47	N/A
20	Is Security Officer/Supervisor are controlling the public.	Yes	Mr. Deepak Bhandalkar (Security)
21	Is the Main controller getting time-to-time information from Incident Controller & Other Key Personnel?	Yes	Through walky-talky.
22	What time the emergency is mitigated	11:03	N/A
23	Is it required to inform to statutory departments	Yes	DISH and mutual aid group inform through social media.
24	EHS Head/ in charge visited incident site after activation emergency.	Yes	Available throughout mock drill
25	For about any Hazardous waste generated.	NO	N/A
26	Is the plant completely under safe shut down? on what time	NO	N/A
27	Has the Main controller announced all clear siren after normalcy is restored?	Yes	N/A
28	What time all clear siren was blown by security.	12:03	After ensuring headcount tallying, briefing by site main controller and HOD-EHS at assembly point, clear siren activated.

	Prepared By	Checked By	Approved By
Signature			
Date	04 May 2021	04 May 2021	11 MAY 2021
Name	Pramod Dhamale	Prakash Baba Ayyagari	Ananth Vinjamuri

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MOCK DRILL OBSERVATION CHECK LIST

Format No.	:	KEH-013/F3/01		
Effective Date	:	10 JUN 2021	Page No. :	Page 4 of 4

S.No.	Other observations
1	Total Head Count: Total - 108 Nos: personnel directed to assembly at assembly point number-02 & 03 by security with the help of Red & Green flag.
2	Types of Fire Extinguishers / Spill kits used for control spill: Foam (F 113) type fire extinguishers used.
3	Number of Fire Hydrant Points Used: single Hydrant point number SH-24 is used for extinguish the fire.
4	Spill Control Media Used: As scenario is fire, hence spill Combat media not required to use.
5	Total Safety Squad Members attended: Safety Squad member-08 and first aiders-02
6	Mutual Aid Support taken if any: Not required.
7	Positive Features of the Mock Drill: 1) Controlling of traffic by Security personnel by using Red and Green flag. 2) Ambulance vehicle reached well in time.
8	Short comings observed in the Mock Drill: Refer Attached Achim plan.
9	Any other observations: N/A

Signature of the Main Controller: 13 Sept 2022

Signature of the EHS (Head)/Designee: 29.08.2022

Signature	Prepared By	Checked By	Approved By
Date	04 May 2021	04 May 2021	04 May 2021
Name	Pramod Dhamale	Prakash Baba Ayyagari	Ananth Vinjamuri

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KURKUMBH

Attachment-1

Sl No	Name	Designation	Portfolio during emergency	Location
1	Mr. Jaywant Veerkar	DGM-Prod	Site Main Controller	Emergency Control Center
2	Mr. Somnath Ahire	Executive- Prod	Incident controller	Incident Site
3	Mr. Yashpal Thokade	DGM-Prod	Observer	Incident Site
4	Mr. Anand Kulkarni	GM-Engg	Observer	Assembly point-02
5	Mr. Rahul Morgaonkar	AGM-HR	Observer	Main gate and ECC
6	Mr. Devendra Puranik	Asst. Manager-HR	Head count	Assembly point-03
7	Mr. Santosh Sangme	Executive- EHS	OHC attendant	OHC
8	Mr. Shrikant Jadhav	Executive- EHS	ETP In charge	ETP
9	Mr. Maruti Choramle	Driver	Ambulance	Main gate
10	Mr. Suraj Sasane	Executive- Engg	Monitoring hydrant system	Fire Pump house
11	Mr. Anand Karmalkar	Asst. Manager-EHS	Safety officer	ECC
12	Mr. Pramod Dhamale,	Manager-EHS	Safety officer	Incident site
13	Mr. Deepak Bhandalkar	Security	Controlling public	Incident Site

29.08.2022