

No: CIP/MOEF/2022/11/07

Date: ~~21.11.2022~~ 29.11.2022

To,

Director (S)

Ministry of Environment & Forests

Regional Office (Southern Zone)

Kendriya Sadan, 4th Floor,

E & F Wings, 17th Main Road,

2nd Block, Koramangala,

Bangalore-560034.



Dear Sir/Madam,

Subject: Submission of half yearly point wise compliance report to conditions of Environmental Clearance for the period of April - 2022 to September - 2022

Reference: 1. EC No: F.No J-11011/382/2019-IA-II (I)]

With reference to the above subject, we are hereby submitting Biannual (April – 2022 to September-2022) compliance report of stipulated conditions for Environmental Clearance granted to M/s Cipla Limited, Plot No 285, 286 and 287, Bommasandra Jigani Link Road, KIADB industrial area, 4th Phase, Bangalore 560105 as per the above reference. Kindly accept and acknowledge the receipt of the same.

Thanking you

Sincerely Yours

For Cipla Limited


Pradeep Gupta
(Site Head)




Copy to: 1. The Regional Officer, Anekal Region, Nisarga Bhavan, Bangalore.

2. The Regional Officer, CPCB Zonal office, 1st floor Nisarga Bhavan, Bangalore.

3. The Member Secretary, Karnataka State Pollution Control Board,

'Parisara Bhavan' 5th floor, Church Street, Bangalore-560001


30/11/22
CENTRAL POLLUTION CONTROL BOARD
MINISTRY OF ENVIRONMENT FORESTS &
CLIMATE CHANGE, GOVT. OF INDIA
REGIONAL DIRECTORATE (SOUTH)
1ST & 2ND FLOOR, "NISARGA BHAVAN"
7TH D MAIN, THIMMAIAH ROAD,
SIRSIKAR, BANGALURU - 560 070

Cipla Ltd.

Plot No 285, 286 & 287, Bommasandra-Jigani Link Road Industrial Area, KIADB 4th Phase, Jigani Post, Bengaluru - 560 105
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**POINTWISE COMPLAINE TO ENVIRONMENTAL CLEARANCE (EC
No: F. No J-11011/382/2019-IA-II (I)] CONDITIONS ISSUED TO
M/s CIPLA LIMITED**

Compliance report for the period – April-2022 to September- 2022

Sl.	CONDITIONS	COMPLIANCE STATUS
A	SPECIFIC CONDITIONS	
1	The project proponent shall obtain wildlife clearance from standing committee NBWL, if applicable as the project site is located at the distance 5.6 Km from Bannerghatta National Park.	Complied. Approval taken from the Chief Wildlife Warden, Government of Karnataka regarding impact of the project on the Bannerghatta National Park. Copy of the same submitted to the Ministry.
2	Necessary permission as mandated under the (Water Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, shall be obtained from time to time from State Pollution Control Board.	Complied. We have received Consent to Establish Expansion under (Water Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981. We had valid CFE, and CFO are in place CFE consent NO CTE 325900 validity up to 21/04/2028. CFO No AW-327994 Valid up to 30/06/2026.
3	As already committed by the project proponent, zero liquid discharge shall be ensured, and no waste/ treated water shall be discharge outside the premises.	Complied. Already site is having a zero liquid discharge facility which is fully operational. LOW TDS and High TDS effluent streams are segregated at source. <ul style="list-style-type: none"> • Low TDS effluents are treated in Conventional Activated sludge process with Extended Aeration followed by Reverse Osmosis. • High TDS effluents are treated in Stripper/Three effect forced circulation Multiple Effect Evaporator followed by Agitated Thin film dryer (ATFD).

		<ul style="list-style-type: none"> • There is no waste /Treated water discharge the outside the premises. • Effluent Treatment Plant Flow Scheme Attached Annexure-1
4	Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary movement) Rules, 2016, Solid Waste Management Rules 2016 shall be obtained, and the provisions contained in the rules shall be strictly adhered to.	<p>Complied.</p> <p>Hazardous waste management rules are strictly followed as per Hazardous and other Wastes (Management, and Transboundary Movement) Rules, 2016. All conditions stipulated in Hazardous Authorization issued by KSPCB are adhered to.</p> <p>Hazardous Waste Authorization No is 328940 and valid up to 30/06/2026.</p>
5	National Emission Standards for Pharmaceutical Industry (Bulk Drugs) issued by the Ministry vide G.S.R.149(E) dated 4th March 2009 and amended from time to time shall be followed Fugitive emission shall be controlled at 99.98% with effective chillers.	We do not have inhouse incineration facility, so same shall not applicable to us.
6	No raw material/solvent prohibited by the concerned regulatory authorities from time to time, shall be used.	<p>Being complied.</p> <p>No raw material/solvents which are prohibited by regulatory authorities are purchased.</p>
7	To control source and the fugitive emission, suitable pollution control devices shall be installed to meet the prescribed the norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	<p>Complied.</p> <p>In order to control the fugitive emissions following facility available at site.</p> <ul style="list-style-type: none"> • We have preventive /condition-based maintenance schedule for all the equipment's installed at site to eliminate the possibilities of fugitive emission of leakages. for the issues of leakages & repairs.

		<ul style="list-style-type: none"> Adequate DG and boiler chimney height is in place as per the norms.
8	<p>Solvent management shall be carried out as follows:</p> <p>(a) Reactor shall be connected to chilled brine condenser system.</p> <p>(b) Reactor and solvent handling functional have mechanical seals to prevent leakages.</p> <p>(c) The condenser shall be provided with sufficient HTA and resistance time so as to achieve more than 95% recovery.</p> <p>(d) Solvents will be stored in a separate space specified with all safety measures.</p> <p>(e) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.</p> <p>(f) Entire plant Shall be flameproof. The solvent storage tank shall be provided with breather valve to prevent losses.</p> <p>All the solvent storage tanks shall be connected with vent condensers with chilled brain circulation.</p>	<p>Complied.</p> <p>Solvent Management following</p> <p>a) All the reactors' condensers available at site are connected with chilled brine system.</p> <p>b) Reactor and solvent handling pumps are equipped with mechanical seal to prevent leakages.</p> <p>c) All condensers connected with reactors are design for adequate HTA to achieve recovery more than 95%.</p> <p>d) Dedicated Tank Farm area is available where in solvents are being stored in underground tanks with adequate safety measures.</p> <p>e) Proper Earthing connectivity provided for all Equipment's which are used for solvent handling.</p> <p>f) Flame proof fixtures are provided based on hazardous are classifications.</p> <p>All the solvent storage tanks have nitrogen blanketing with breather valves to prevent loses.</p> <p>As per the vapor pressure at room temperature data requirement vent condensers with chilling system is available for two MDC storage tanks.</p>
9	<p>Total freshwater requirement shall not exceed 140 cum/day, proposed to be met from ground water. Prior permission in this regard shall be</p>	<p>Complied.</p> <p>Fresh Water consumption is well within the stipulated limit 140 cum/ day.</p> <p>Water Balance Sheet Attached</p>

	obtained from the concerned regulatory authority/ CGWA.	Annexure -2
10	Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.	Complied. There is separate storm water drain is available across the site, which is clearly segregated process effluent water trench. Storm water from the premises is collected and discharged through a separate conveyance system.
11	Hazardous chemical shall be stored in tanks, tanks farms drums, carboys etc. Flame arrestors shall be provided on tank farm, and solvent transfer through pumps.	Complied. All the hazardous chemicals are being stored in tanks, drums in tank farm and carboys etc. Flame arresters are provided in all solvent storage tanks and solvents are being transferred through pumps.
12	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic and operation salt shall be disposed of to the TSDF.	Complied. Process organic residue and spent carbon generated during process are being sent to KSPCB authorized incineration vendor. ETP sludge, process inorganic and operation salt is being sent to KSPCB approved TSDF facility.
13	The company shall strictly comply with the rules and guidelines under manufacture storage and import of hazardous chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of hazardous chemical shall be as per the Motor Vehicle Act (MVA), 1989.	Noted and shall be complied.
14	Fly ash should be stored supply separately as per CPCB guidelines so that it may not adversely affect the air quality. Direct exposure of workers to fly ash and dust should be avoided.	There is no source for generating fly ash at site.
15	The company shall undertake waste minimization measures as below.	Complied.

	<p>(a) Metering and control of quantities of active ingredients to minimize waste.</p> <p>(b) Reuse of by products from the process as raw materials are as raw material substitute in other processes.</p> <p>(c) Use of automated filling to minimize spillage.</p> <p>(d) Use of close feed system into batch reactors.</p> <p>(e) Venting equipment through vapor recovery system. use of high-pressure hoses for equipment clearing to reduce wastewater generation.</p>	<p>a) API and raw materials quantity are reviewed on weekly basis to minimize the inventory.</p> <p>b) Raw materials are procured on a requirement basis only.</p> <p>c) Solvent batching system is being used for the close loop handling of solvents, which ensures the elimination of spillage.</p> <p>d) Batching systems are used closed loop solvent charging</p> <p>e) Condenser with optimum design of HTA and desired utilities are in place ensure the vapor recovery efficiently.</p> <p>f) Spray Balls are being installed to handle organic solvents in closed loop which are used for reactor cleaning.</p>
16	<p>The green belt of at least 5-10 m width shall be developed in nearly 40% of the total project area, mainly along the plant periphery, in downward wind direction, and along roadside etc. Selection of plant species selfie as for the CPCB guidelines in consultation with the State Forest Department.</p>	<p>Complied.</p> <p>As per compliance condition 40 % green belt developed in the total area and different tree varieties belonging to Saraca asoca, Dypsis lutescens, Prunus dulcis, Caesalpinia pulcherrima, Casuarina equisetifolia, Magnolia champaca, Araucaria Coochii, Wodyetia bifurcate, Galpinia tranvaalica, Melaleuca bracteate, Delonix regia, Pongamia pinnata, Muntingia calabura, Artocarpus heterophyllus, Syzygium cumini, Mangifera indica, Swietenia mahagoni, Azadirachta indica, Eucalyptus, Ficus benghalensis, Musa acuminate, Carica papaya, Phoenix canariensis, Punica granatum, Quercus, Grevillea robusta, Santalum album, Tectona grandis Linn, Thorn Acacia, Leucaena leucocephala, Sapodilla, etc are planted in the facility.</p>

17	At least 3% of total project cost Shall be allocated for Corporate Environment Responsibility (CER) and item wise details along with the time bond action plan shall be prepared and submitted to the Ministry's Regional Office.	Noted, The Projects planned for CER activity which includes <ul style="list-style-type: none"> • Tree plantation & afforestation. • Lake rejuvenation.
18	For the DG sets, emission limits and the stack height shall be in conformity with the regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling noise pollution.	Complied. Adequate stack height is provided for all the DG sets and similarly suitable acoustic enclosures are provided for DG sets.
19	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Complied. The areas of high risk posing potential fire risk are evaluated and provided with fire protection system such as <ul style="list-style-type: none"> • The fire extinguishers are installed in site as per the classification & risk potential of each area and 360 No's of extinguishers are installed. • Fire hydrant, Fire protection sprinklers, Foam-water jet monitor, NOVEC-123 fire suppression system and DSPA fire suppression system and are installed in various areas. • Fire detection system such as smoke detectors, Fire alarms and manual call point installed
20	Occupational health surveillance of the workers will be done on a regular basis and records maintained as per the Factories Act.	Complied. Occupational health surveillance of the workers is done on a Biannual basis and records maintained as per the Factories Act. These reports are discussed with occupational Health advisor for any

		concerns. Apart from routine tests, Kidney function test, Liver function test Audiometry, ECG etc. are also done.
21	Continuous online (24x7) monitoring system for stack emission shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install Web camera with night vision capability and flow meters in the channel/ drain carrying effluent within the premises.	<p>Complied.</p> <ul style="list-style-type: none"> • We Installed Continuous online (24x7) monitoring system for stack emission for the measurement of the specified parameters of flue gas discharge from DG and Boiler. Data transmission work is going on CPCB and KSPCB server. • We installed IP camera with PAN, TILT Zoom, 5x focal length with night vision capability and fixed in flow meter at the outlet of the ETP & Data connected to CPCB and KSPCB server. Same is acknowledged by CPCB and KSPCB.
22	Process safety and risk assessment studies shall be further carried out using advanced to models, and the mitigating measures shall be undertaken accordingly.	Process safety and risk assessment studies are carried out mandatorily for Mitigating the Hazards & Implementing the advanced models.
B	GENERAL CONDITIONS	
1	The project proponent shall obtain all other statutory/ necessary permissions recommendations NOCs prior to start of the construction/operation of the project which inter alia include, permission/approvals under the Forest (Conservation) Act, 1980: Wildlife (Protection) Act, 1972; the Coastal Regulation Zone Notification, 2019, as amended from time to time and other office memorandum circular issued by the Ministry of	<p>Complied.</p> <p>The industry is already established in the notified industrial area. Therefore, it is not applicable. No new construction is done. EC was obtained for Change of product mix.</p>

	Environment Forest and Climate Change from time to time as applicable to the project.	
2	The project proponent shall ensure compliance of 'National Emission Standards', as applicable to the project issued by the ministry from time to time. The project proponent shall also abide by the rules/ regulations issued by the CPCB/SPCB for control/abatement of pollution.	Complied. We are conducting timely emission monitoring which are observed to be well within the limits.
3	The project authorities shall order to the stipulations made by the State Pollution Control Board/ Committee, Central Pollution Control Board, State Government and any other statutory authority.	We shall comply
4	The project proponent shall prepares a site-specific conservation plan and Wildlife Management Plan in the case of the presence of Schedule-1 species in the study area as applicable to the project and submit to Chief Wildlife Warden for approval. The recommendations shall be implemented in consultation with the State Forest/Wildlife department in time bound manner	Our industry is located in notified industrial area, where in this conservation plan is not applicable.
5	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments shall be carried out without prior approval of the Ministry of Environment Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for Clearance, a fresh reference shall be made to the Ministry to access the adequacy of	Complied. No expansion or modifications in the plant has been carried out without prior approval of the Ministry of Environment Forest and Climate Change and EIA Notification of 2006.

	conditions imposed and to add additional environmental protection measures required, if any.	
6	The energy source from lightning propose shall be preferably LED based, or advanced having performance in energy conservation and environment betterment.	Complied. following energy conservation strategies for environment betterment.
7	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (KSPCB), and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Complied. 4 Ambient air quality monitoring stations are set up in consultation with KSPCB. <u>Locations are as follows:</u> a. Near ETP (East) b. Near Material entry gate (West) c. Near API-1 (South) d. Near Boiler house (North) Ambient air quality monitoring is carried out by NABL accredited Laboratory (M/s Tejus Enterprises), and reports are filed monthly to State Pollution Control Board (KSPCB)
8	The National Ambient Air Quality Emission Standard issued by the Ministry vide G.S.R No. 826 (E) dated 16th November 2009 shall be followed.	The National Ambient Air quality emission standards are being followed and accordingly monitored. NAAQ Annexure-3
9	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including an acoustic hood, silencers, enclosures etc. on all sources of noise generation. The Ambient Noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 with 75 dBA (daytime) and 70 dBA (nighttime).	Noise level is well within the stipulated standards. Acoustic enclosures are provided for Diesel Generator and ETP Blowers. The ambient noise levels across our boundary conforms to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime). HCL software company is located on the East side of our premises, M/s Richa Global, a garment factory is located on the West side. North side of our premises is agricultural land and South side there is main road.

		Annexure-4
10	The Company shall harvest rainwater from the rooftops of the buildings and storm water drains to recharge the groundwater and to utilize the same for process requirements.	Rainwater collection from rooftops of the buildings plan is under proposal. storm water drains to recharge the groundwater is not permitted as per CFE and CFO conditions.
11	Training shall be imparted to all employees on safety and health aspects of chemical handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemical shall be imparted.	Noted. Pre-employment and routine periodical medical examinations for all employees are being done. Trainings are being imparted on regular basis.
12	The company shall undertake all relevant measures for improving the socio- economic conditions of the surrounding area. CER activities shall be undertaken by involving local villagers and administration and shall be implemented.	Noted being complied Tree Plantation done at Henagara Govt. school.
13	The company shall undertake eco-development all measures including community welfare measures in the project area for the overall improvement of the environment.	we worked with CSR team for support nearby Hospitals, Mobile Health Care unit in Jigani area, to benefit the community around the plant area, to facilitate health care & vaccination.
14	A separate Environmental Management cell (having qualified person with Environmental Science/ Environmental Engineering/ specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	A separate Environmental Management Cell are in place with Qualified Environmental professionals and unit is ISO 14001:2015 certified. Site have dedicated ETP lab and continuous monitoring of Effluent sample are in place.
15	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to	Noted being complied.

	implement the conditions stipulated by the Ministry of Environment Forest and Climate Change as well as the State Government along with the	
	implementation schedule for all the conditions stipulated here in. The funds earmark for environment management/ pollution control measures shall not be diverted for any other purpose.	
16	A copy of the clearance letter selfie sent by the project proponent to be concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any from whom suggestions/representations, if any, were received while processing the proposal.	Complied. The Environmental clearance copy submit to the chief officer Jigani-town municipal council acknowledgement copy attached as Annexure- 5
17	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by email) to the respective Regional Office of MoEF&CC, respective zonal office of CPCB and SPCB. A copy of Environmental Clearance and six-monthly complaint status report shall be posted on the website of the company.	Complied. Attached screen shot of compliance report published in website Annexure-6
18	The environmental statement for each financial year ending 31st March in Form-V is mandated shall be submitted 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	Complied.

	environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by email.	
19	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/ Committee and may also be seen at Website of the Ministry and at https://parivesh.nic.in/ . This shall be advertised within seven days from the date of issue of the clearance letter, at least into local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Complied. Two local newspapers advertise is given as per condition copy is attached as a Annexure-7
20	The project authorities shall inform the Regional Office as well as the Ministry the date of financial closer and final approval of the project by the concerned authorities and the date of start of the project.	Noted and shall be complied.
21	This Environmental Clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any as may be applicable to this project.	Noted and shall be complied.
22	The Ministry reserves the right to stimulate additional conditions, if found necessary at subsequent stages and the project proponent cell implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if	Noted.

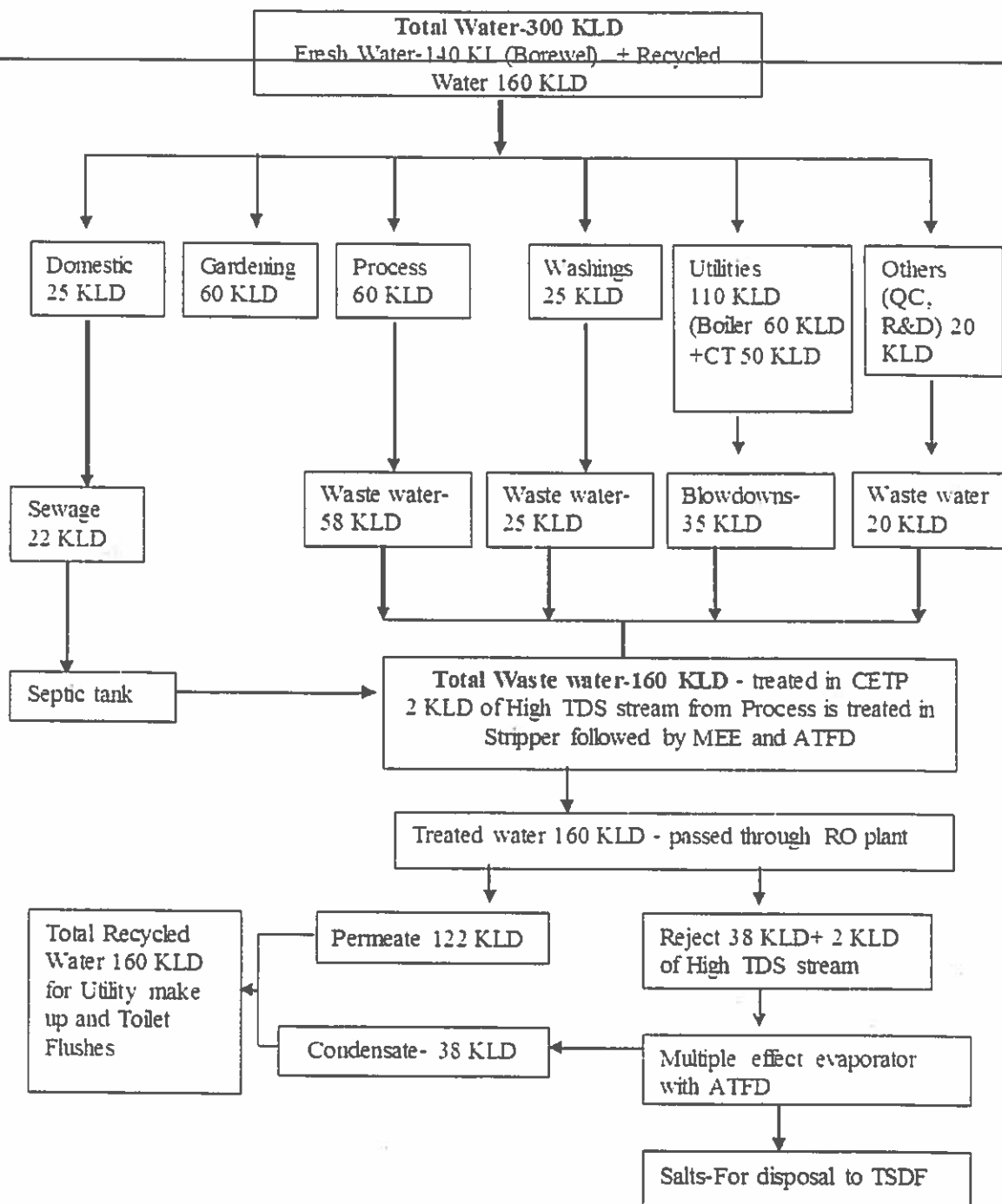
	implementation of any of the above condition is not found satisfactory.	
23	Concealing factual data for submission of false/ fabricated data	Noted.
	and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	
24	Any appeal against this environment clearance cell lies with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section the 16 of the National Green Tribunal Act, 2010.	Noted.
25	The above conditions will be enforced inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act 1986 the Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2016 and public liability insurance act 1991 read with subsequent amendments are therein	Noted.
26	This issues with the approval of the competent authority.	Noted.

For Cipla Limited



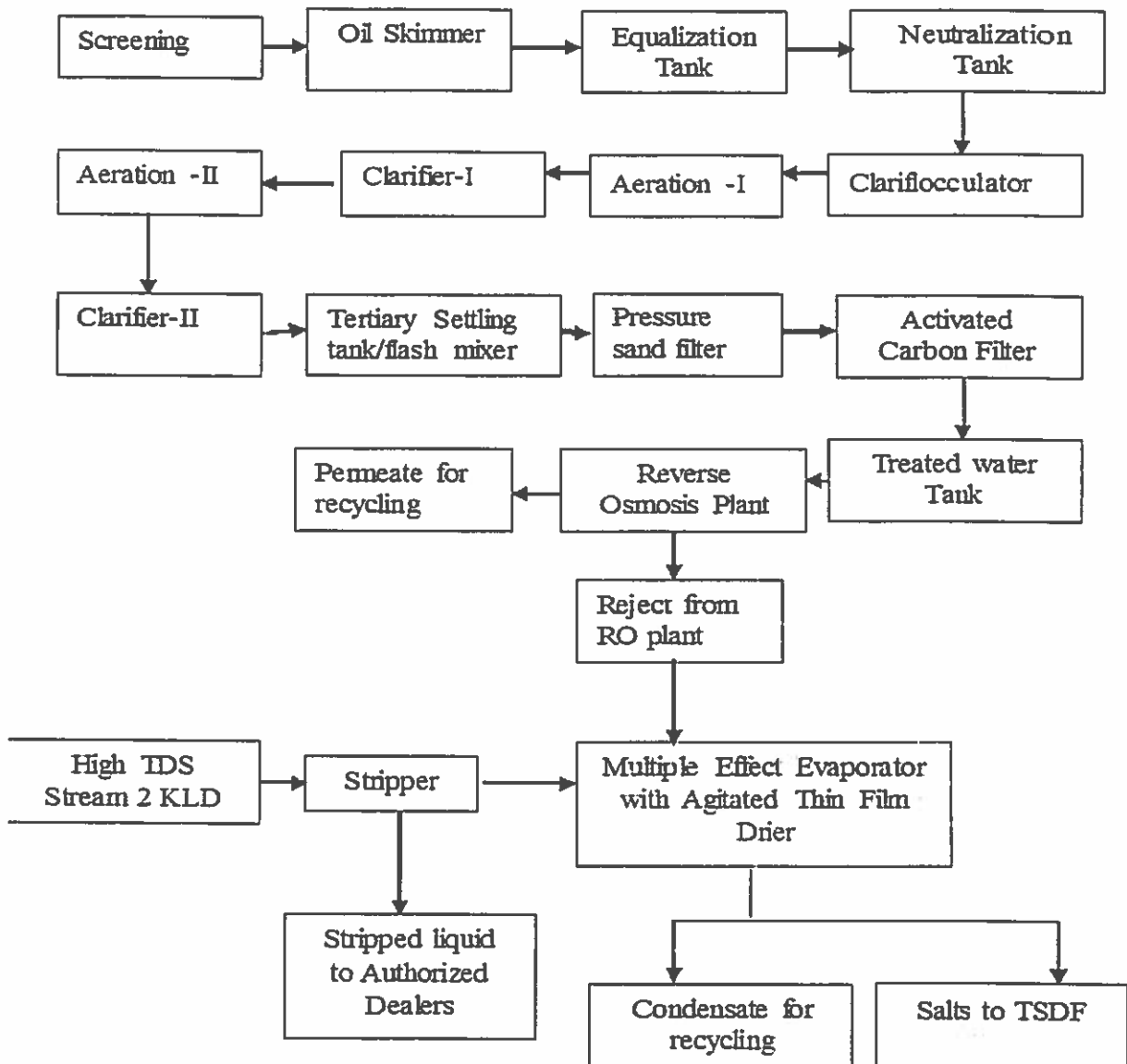
Pradeep Gupta
(Site Head)

ANNEXURE-II
WATER BALANCE



Annexure-1

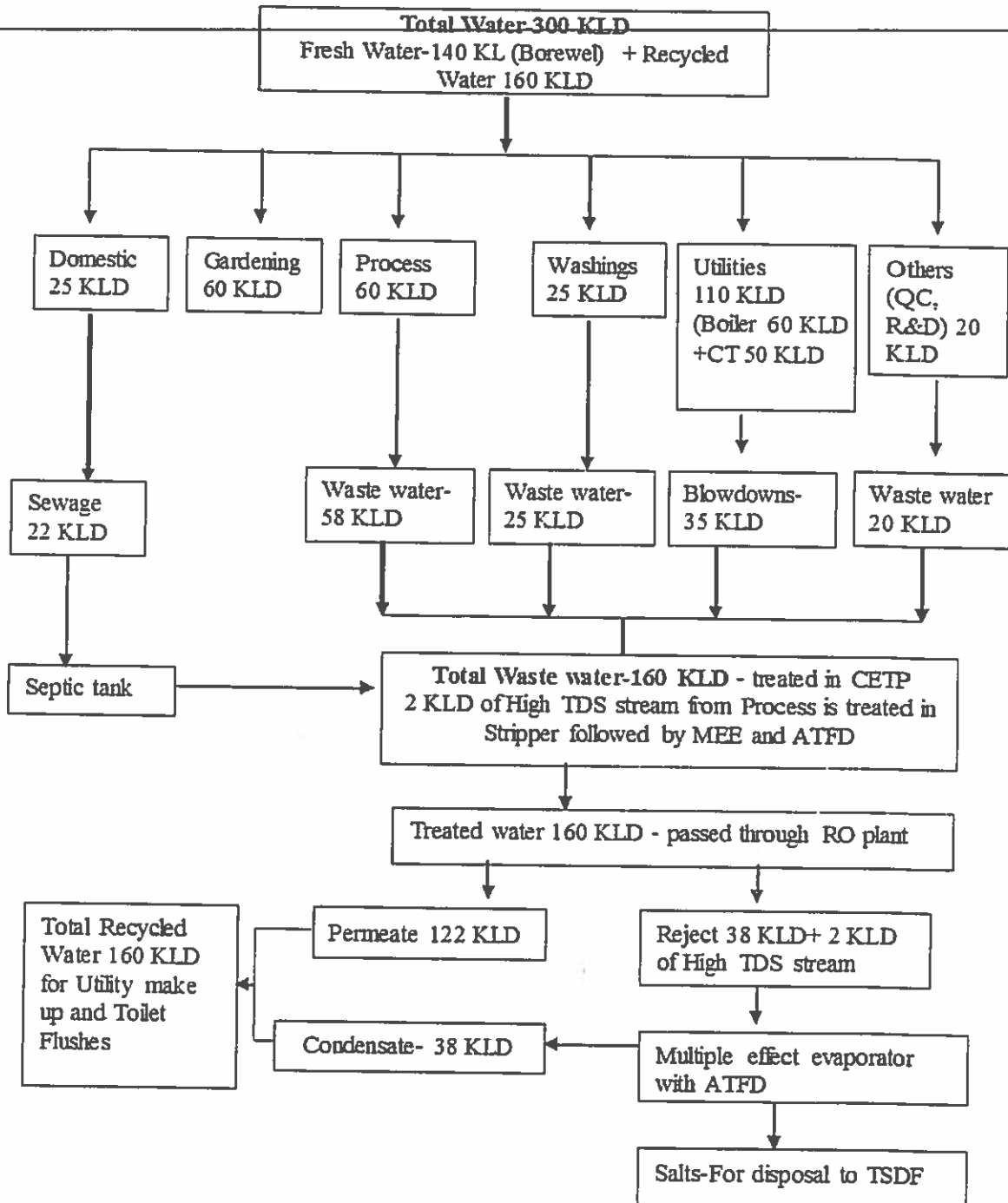
EFFLUENT TREATMENT PLANT-FLOW SCHEME



Sludge from Clariflocculator and Clarifier



**ANNEXURE-II
WATER BALANCE**



Ambient Air Monitoring Near Api-1 (East Side)

S.no	Parameters	Limits As per NAAQS	Apr.22	May.22	Jun.22	Jul.22	Aug.22	Sep.22	Average
1	Particulate Matter PM10,ug/m3	100	51.3	54.5	49.3	40.5	42.6	40.5	46.45
2	Particulate Matter PM2.5,ug/m3	60	25.6	28.1	23.6	16.3	19.3	18.9	21.97
3	Sulphur Dioxide No2 ug/M3	80	11.4	15.3	10.5	6.8	9.4	8.1	10.25
4	Nitrogen Dioxide No2,ug/M3	80	16.8	20.6	17	14	16.7	15.1	16.70
5	Ammonia as Nh3,ug/m3	400	26.7	24.2	23	21.1	22.2	20	BDL
6	carbon monoxide as co,mg/m3	2	0.8	0.7	0.6	0.4	0.6	0.5	BDL
7	ozone as O3 u/m3	180	16.4	14.4	13.7	10.8	12.1	10.7	BDL
8	Lead As Pb ug/m3	1	BDL	BDL	BDL	BDL	BDL	BDL	<1.0
9	Benzene ug/m3	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10	Benzo(a) pyrene,ng/m3	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL
11	Arsenic as ng/m3	6	BDL	BDL	BDL	BDL	BDL	BDL	ND
12	Nickel As Ni mg/m3	20	BDL	BDL	BDL	BDL	BDL	BDL	ND

Ambient Air Monitoring Near Boiler House (West Side)

S.no	Parameters	Limits As per NAAQS	Apr.22	May.22	Jun.22	Jul.22	Aug.22	Sep.22	Average
1	Particulate Matter PM10,ug/m3	100	57.1	58.7	54.8	42.8	44.6	42.4	50.07
2	Particulate Matter PM2.5,ug/m3	60	25.6	26.4	23.5	18.7	21.3	20.2	22.62
3	Sulphur Dioxide No2 ug/M3	80	12.2	13.5	11.4	9.2	11.2	10	11.25
4	Nitrogen Dioxide No2,ug/M3	80	17.8	18.6	16.3	13.5	22.7	20	18.15
5	Ammonia as Nh3,ug/m3	400	26.3	24.1	22.1	20.6	23.9	22	BDL
6	carbon monoxide as co,mg/m3	2	0.5	0.4	0.3	0.2	0.4	0.3	BDL
7	ozone as O3 u/m3	180	16.8	14.5	12.8	10.4	12.1	9.9	BDL
8	Lead As Pb ug/m3	1	BDL	BDL	BDL	BDL	BDL	BDL	<1.0
9	Benzene ug/m3	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10	Benzo(a) pyrene,ng/m3	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL
11	Arsenic as ng/m3	6	BDL	BDL	BDL	BDL	BDL	BDL	ND
12	Nickel As Ni mg/m3	20	BDL	BDL	BDL	BDL	BDL	BDL	ND

checked by
gag

Stack Monitoring DG 1500 KVA									
S.no	Parameters	Limits As per NAAQS	Apr.22	May.22	Jun.22	Jul.22	Aug.22	Sep.22	Average
1	Area of cross section of Stack,m2	Ns	0.113	0.113	0.113	0.113	0.113	0.113	0.11
2	Stack top	Ns	round	round	round	round	round	Round	Round
3	Temperature. C	Ns	201	191	183	177	175	177	184.00
4	Satck Gas velocity ,m/s	Ns	9.2	9	8.7	9.1	8.8	8.4	8.87
5	Rate of Discharge of gas,Nm3/hr	Ns	2393.5	2391.9	2352.7	2493.7	2398.4	2289.4	2386.60
6	Particulate Matter mg/Nm3	75	43.5	46.4	42.5	40.2	38.6	36.2	41.23
7	oxides of sulphur (so2), mg/Nm3	NS	14.6	18.6	16.4	14.5	12.7	10.8	14.60
8	oxides of Nitrogen (No2), mg/Nm3	710	135	140	137	130	125.4	118.5	130.98
9	carbon monoxide as co,mg/m3	150	68	72	70	67	65	63	67.50
10	Non -Methane Hydrocarbon (NMHC),PPM	100	34	37	35	31	28	27	32.00

Stack Monitoring 1.5 TPH Boiler Chimney									
S.no	Parameters	Limits As per NAAQS	Apr.22	May.22	Jun.22	Jul.22	Aug.22	Sep.22	Average
1	Area of cross section of Satck,m2	Ns	0.196	0.196	0.196	0.196	0.196	0.196	0.20
2	Stack top	Ns	round	round	round	round	round	Round	Round
3	Temperature. C	Ns	137	130	136	130	127	129	131.50
4	Satck Gas velocity ,m/s	Ns	8.6	6.5	6.1	6.8	6.2	6	6.70
5	Rate of Discharge of gas,Nm3/hr	Ns	4478.3	3443.5	3184.2	3602.4	3302.9	3132.8	3524.02
6	Particulate Matter mg/Nm3	75	12.5	14.1	11.2	6.1	7.2	6.5	9.60
7	oxides of sulphur (so2), mg/Nm3	NS	5.6	6.2	5	4.7	5.2	4.7	5.23
8	oxides of Nitrogen (No2), mg/Nm3	710	9	10.7	8.6	8.3	11.1	9.1	9.47

ETP RO Permeate Water

S.no	Parameters	Limits As per KSPCB	Apr.22	May.22	Jun.22	Jul.22	Aug.22	Sep.22	Average
1	pH	6.0 – 8.5	7.13	7.01	6.1	6.4	6.6	6.8	6.67
2	Total Suspended Solids, mg/L	Max 100	14.6	12.5	10.6	12.5	5.9	5.6	10.28
3	Chromium as Cr, mg/L	Max 0.1	BDL	BDL	BDL	BDL	BDL	BDL	0.00
4	Mercury as Hg, mg/L	Max 0.01	BDL	BDL	BDL	BDL	BDL	BDL	0.00
5	Cyanide as CN, mg/L	Max 0.1	Absent	Absent	Absent	Absent	Absent	Absent	0.00
6	Lead as Pb, mg/L	Max 0.1	BDL	BDL	BDL	BDL	BDL	BDL	0.00
7	Arsenic as As, mg/L	Max 0.2	BDL	BDL	BDL	BDL	BDL	BDL	0.00
8	Phenolic compounds as C ₆ H ₅ OH, mg/L	Max 1.0	Absent	Absent	Absent	Absent	Absent	Absent	0.00
9	Biochemical oxygen demand (3 days @ 27°C), mg/L	Max 30	6.9	3.8	3.2	4.9	3.7	3.7	4.37
10	Oil & Grease, mg/L	Max 10	2.7	BDL	BDL	BDL	BDL	BDL	2.70
11	Phosphates as P, mg/L	Max 1.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL
12	Sulphide as S, mg/L	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL
13	Bioassay	90% survival of fish after 96 hours in 100%	92% survival of fish after 96 hours in 100%	90% survival of fish after 96 hours in 100%	90% survival of fish after 96 hours in 100%	90% survival of fish after 96 hours in 100%	90% survival of fish after 96 hours in 100%	90% survival of fish after 96 hours in 100%	BDL

Scrubber -1 (SCB-17 API-1)

S.no	Parameters	Limits	Apr.22	May.22	Jun.22	Jul.22	Aug.22	Sep.22	Average
1	Area of cross section of stack, m ²	NS	0.102	0.102	0.102	0.102	0.102	0.102	0.10
2	Stack Top.	NS	Round	Round	Round	Round	Round	Round	Round
3	Temperature, °C	NS	42	40	36	33	31	33	35.83
4	Stack gas velocity, m/s	NS	5.5	5.7	5.5	6	5.4	5.2	5.55
5	Rate of discharge of gas, Nm ³ /hr	NS	1932.4	2015.5	1969.9	2170.1	1963.1	1880.8	1988.63
6	Particulate Matter mg/Nm ³	150	17.4	15.4	12.3	10.4	8.6	7.2	11.88
7	Oxides of Sulphur (SO ₂), mg/Nm ³	NS	7.2	6.8	6	5.3	6.5	5.4	6.20
8	Oxides of Nitrogen (NO ₂), mg/Nm ³	NS	13.6	13	11.5	10.7	8.9	9.6	11.22
9	Acid mist, mg/Nm ³	35	6.4	5.9	5.1	4.6	3.5	4.4	4.98
10	Hydrogen sulphide (H ₂ S), mg/Nm ³	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Scrubber -2 (SCB-101 API-1)									
S.no	Parameters	Limits	Apr.22	May.22	Jun.22	Jul.22	Aug.22	Sep.22	Average
1	Area of cross section of stack, m ²	NS	0.102	0.102	0.102	0.102	0.102	0.102	0.10
2	Stack Top.	NS	Round	Round	Round	Round	Round	Round	Round
3	Temperature, °C	NS	45	38	34	31	30	32	35.00
4	Stack gas velocity, m/s	NS	6.3	5.2	5.9	6.4	6.2	6	6.00
5	Rate of discharge of gas, Nm ³ /hr	NS	2192.6	1850.5	2127	2330	2269.1	2159.1	2154.72
6	Particulate Matter mg/Nm ³	150	18.6	12.6	13.8	15	16.5	15.4	15.32
7	Oxides of Sulphur (SO ₂), mg/Nm ³	NS	6.2	4.7	5.2	6.6	7.5	6.3	6.08
8	Oxides of Nitrogen (NO ₂), mg/Nm ³	NS	12	11	12.6	13.8	14.1	14.4	12.98
9	Acid mist, mg/Nm ³	35	4.3	3.8	4.3	5	6.2	5.5	4.85
10	Hydrogen sulphide (H ₂ S), mg/Nm ³	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Scrubber -3 (SCB-201 API-2)									
S.no	Parameters	Limits	Apr.22	May.22	Jun.22	Jul.22	Aug.22	Sep.22	Average
1	Area of cross section of stack, m ²	NS	0.025	0.025	0.025	0.025	0.025	0.025	0.03
2	Stack Top.	NS	Round	Round	Round	Round	Round	Round	Round
3	Temperature, °C	NS	38	35	30	36	32	34	34.17
4	Stack gas velocity, m/s	NS	7.8	6.1	6.5	6	6.4	6.8	6.60
5	Rate of discharge of gas, Nm ³ /hr	NS	694	547.9	593.5	537.2	568.4	593.1	589.02
6	Particulate Matter mg/Nm ³	150	12.5	17.4	15.8	17.3	20.5	18.9	17.07
7	Oxides of Sulphur (SO ₂), mg/Nm ³	NS	5	4.2	5.1	7.8	8.4	7.5	6.33
8	Oxides of Nitrogen (NO ₂), mg/Nm ³	NS	9	8.6	9.2	11.5	13.3	11.4	10.50
9	Acid mist, mg/Nm ³	35	3.7	3.1	3.9	4.7	5.6	4.8	4.30
10	Hydrogen sulphide (H ₂ S), mg/Nm ³	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Scrubber -4 (SCB-202 API-2)									
S.no	Parameters	Limits	Apr.22	May.22	Jun.22	Jul.22	Aug.22	Sep.22	Average
1	Area of cross section of stack, m ²	NS	0.025	0.025	0.025	0.025	0.025	0.025	0.03
2	Stack Top.	NS	Round	Round	Round	Round	Round	Round	Round
3	Temperature, °C	NS	47	42	40	38	36	38	40.17
4	Stack gas velocity, m/s	NS	7	6.6	6.2	6.8	6.4	6.6	6.60
5	Rate of discharge of gas, Nm ³ /hr	NS	605.2	579.7	548.1	604.9	561.1	570.2	578.20
6	Particulate Matter mg/Nm ³	150	20.3	19.2	17.3	12.4	13.6	12.5	15.88
7	Oxides of Sulphur (SO ₂), mg/Nm ³	NS	7.6	7.1	6.1	4.2	5.5	4.8	5.88
8	Oxides of Nitrogen (NO ₂), mg/Nm ³	NS	14.5	12.6	11.8	10.6	8.9	6.1	10.75
9	Acid mist, mg/Nm ³	35	6.7	5.3	4.2	4	3.7	2.9	4.47
10	Hydrogen sulphide (H ₂ S), mg/Nm ³	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Scrubber -5 (SCB-203 API-2)									
S.no	Parameters	Limits	Apr.22	May.22	Jun.22	Jul.22	Aug.22	Sep.22	Average
1	Area of cross section of stack, m ²	NS	0.08	0.08	0.08	0.08	0.08	0.08	0.08
2	Stack Top.	NS	Round	Round	Round	Round	Round	Round	Round
3	Temperature, °C	NS	41	37	42	35	34	36	37.50
4	Stack gas velocity, m/s	NS	7.3	6.4	6.2	7	6.7	6.5	6.68
5	Rate of discharge of gas, Nm ³ /hr	NS	2033.1	1805.4	1721.2	1987.4	1871.7	1815.8	1872.43
6	Particulate Matter mg/Nm ³	150	14.6	16.4	13.6	14.3	15.4	14.3	14.77
7	Oxides of Sulphur (SO ₂), mg/Nm ³	NS	5.8	6.5	6	5.8	3.7	2.7	5.08
8	Oxides of Nitrogen (NO ₂), mg/Nm ³	NS	10.3	11.7	11	11.4	8.9	8.2	10.25
9	Acid mist, mg/Nm ³	35	5.1		5.9	5.1	3.7	2.4	4.44
10	Hydrogen sulphide (H ₂ S), mg/Nm ³	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Scrubber -6 (SCB-204 API-2)

S.no	Parameters	Limits	Apr.22	May.22	Jun.22	Jul.22	Aug.22	Sep.22	Average
1	Area of cross section of stack, m ²	NS	0.038	0.038	0.038	0.038	0.038	0.038	0.04
2	Stack Top.	NS	Round	Round	Round	Round	Round	Round	Round
3	Temperature, °C	NS	40	34	30	34	35	37	35.00
4	Stack gas velocity, m/s	NS	6.4	6.1	6.6	6.2	6.4	6.3	6.33
5	Rate of discharge of gas, Nm ³ /hr	NS	845.2	821.2	900.3	834.7	855.6	827.3	847.38
6	Particulate Matter mg/Nm ³	150	17.9	18.5	19	15.6	16.2	14.5	16.95
7	Oxides of Sulphur (SO ₂), mg/Nm ³	NS	7.4	7.9	8.2	7.4	8.2	7.5	7.77
8	Oxides of Nitrogen (NO ₂), mg/Nm ³	NS	11.2	12.8	13.4	12.8	14.1	12.3	12.77
9	Acid mist, mg/Nm ³	35	7.8	8.3	7.5	6.2	7	6.2	7.17
10	Hydrogen sulphide (H ₂ S), mg/Nm ³	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Scrubber -7 (SCB-205 API-2)

S.no	Parameters	Limits	Apr.22	May.22	Jun.22	Jul.22	Aug.22	Sep.22	average
1	Area of cross section of stack, m ²	NS	0.042	0.042	0.042	0.042	0.042	0.042	0.042
2	Stack Top.	NS	Round	Round	Round	Round	Round	Round	Round
3	Temperature, °C	NS	37	39	37	40	36	34	37.17
4	Stack gas velocity, m/s	NS	6.7	6.5	5.8	5.5	5.2	5	5.78
5	Rate of discharge of gas, Nm ³ /hr	NS	976.4	941.2	845.2	793.8	754.8	733.3	840.78
6	Particulate Matter mg/Nm ³	150	10.7	11.3	12.4	10.7	8.9	10.2	10.70
7	Oxides of Sulphur (SO ₂), mg/Nm ³	NS	4.1	5.2	5.7	4.2	5.6	7.3	5.35
8	Oxides of Nitrogen (NO ₂), mg/Nm ³	NS	7	8.5	9.2	8.6	9.2	10.7	8.87
9	Acid mist, mg/Nm ³	35	2.8	4.6	5.1	4.3	3.8	5.3	4.32
10	Hydrogen sulphide (H ₂ S), mg/Nm ³	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Scrubber -8 (SCB-206 API-2)									
S.no	Parameters	Limits	Apr.22	May.22	Jun.22	Jul.22	Aug.22	Sep.22	Average
1	Area of cross section of stack, m ²	NS	0.042	0.042	0.042	0.042	0.042	0.042	0.04
2	Stack Top.	NS	Round	Round	Round	Round	Round	Round	Round
3	Temperature, °C	NS	47	42	39	35	32	34	38.17
4	Stack gas velocity, m/s	NS	6	5.7	5.4	5.9	5.6	5.4	5.67
5	Rate of discharge of gas, Nm ³ /hr	NS	847.1	817.5	781.8	865.3	835.6	791.9	823.20
6	Particulate Matter mg/Nm ³	150	16.4	18.7	15.8	12.6	13.9	12.8	15.03
7	Oxides of Sulphur (SO ₂), mg/Nm ³	NS	6.2	7.1	6.5	5.5	6.2	5.8	6.22
8	Oxides of Nitrogen (NO ₂), mg/Nm ³	NS	10.8	12.3	11	10.4	14.9	10.7	11.68
9	Acid mist, mg/Nm ³	35	6	7.5	6.8	6	6.6	5.8	6.45
10	Hydrogen sulphide (H ₂ S), mg/Nm ³	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Scrubber -9 (SCB-207 API-2)									
S.no	Parameters	Limits	Apr.22	May.22	Jun.22	Jul.22	Aug.22	Sep.22	Average
1	Area of cross section of stack, m ²	NS	0.042	0.042	0.042	0.042	0.042	0.042	0.04
2	Stack Top.	NS	Round	Round	Round	Round	Round	Round	Round
3	Temperature, °C	NS	42	37	35	37	32	34	36.17
4	Stack gas velocity, m/s	NS	7.4	6.5	6.2	6.9	5.7	5.5	6.37
5	Rate of discharge of gas, Nm ³ /hr	NS	1061.2	947.2	909.3	1005.5	844.6	806.6	929.07
6	Particulate Matter mg/Nm ³	150	22.5	20.8	14.5	16.4	15.6	16.2	17.67
7	Oxides of Sulphur (SO ₂), mg/Nm ³	NS	8.4	7.2	6	6.5	6.1	6.6	6.80
8	Oxides of Nitrogen (NO ₂), mg/Nm ³	NS	12.3	10.5	9.6	10.9	10.2	8.6	10.35
9	Acid mist, mg/Nm ³	35	7.8	6.4	5.3	5.9	5.4	5.6	6.07
10	Hydrogen sulphide (H ₂ S), mg/Nm ³	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Ambient Air Monitoring Near ETP (North Side)

S.no	Parameters	Limits As per NAAQS	Apr.22	May.22	Jun.22	Jul.22	Aug.22	Sep.22	Average
1	Particulate Matter PM10,ug/m3	100	44.2	48.1	47.3	43	41.9	40.6	44.18
2	Particulate Matter PM2.5,ug/m3	60	19.7	21.6	20.9	16.4	19.5	18.4	19.42
3	Sulphur Dioxide No2 ug/M3	80	8.6	10.4	9.7	7.2	7.3	6.2	8.23
4	Nitrogen Dioxide No2,ug/M3	80	13.5	16.3	15.4	12	9.6	8.5	12.55
5	Ammonia as Nh3,ug/m3	400	26.1	24.8	23.1	21.5	13.8	12.6	BDL
6	carbon monoxide as co,mg/m3	2	NIL	NIL	NIL	NIL	NIL	NIL	BDL
7	ozone as O3 u/m3	180	16.5	14.7	13.2	12	10.1	9.2	BDL
8	Lead As Pb ug/m3	1	BDL	BDL	BDL	BDL	BDL	BDL	<1.0
9	Benzene ug/m3	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10	Benzo(a) pyrene,ng/m3	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL
11	Arsenic as ng/m3	6	BDL	BDL	BDL	BDL	BDL	BDL	ND
12	Nickel As Ni mg/m3	20	BDL	BDL	BDL	BDL	BDL	BDL	ND

Ambient Air Monitoring Near Security gate (South side)

S.no	Parameters	Limits As per NAAQS	Apr.22	May.22	Jun.22	Jul.22	Aug.22	Sep.22	Average
1	Particulate Matter PM10,ug/m3	100	63.4	61.2	56.4	48.2	49.2	47.2	54.27
2	Particulate Matter PM2.5,ug/m3	60	29.8	27.5	23.6	19.3	21.4	19.2	23.47
3	Sulphur Dioxide No2 ug/M3	80	13.5	11.6	8.7	6.7	9.9	7.1	9.58
4	Nitrogen Dioxide No2,ug/M3	80	20.4	18.4	15.2	12.4	13.8	11.6	15.30
5	Ammonia as Nh3,ug/m3	400	26.1	24	22.6	20.9	22.9	20	BDL
6	carbon monoxide as co,mg/m3	2	0.7	0.5	0.4	0.3	0.2	0.1	BDL
7	ozone as O3 u/m3	180	16.3	14.3	12.3	10.5	11.6	9.9	BDL
8	Lead As Pb ug/m3	1	BDL	BDL	BDL	BDL	BDL	BDL	<1.0
9	Benzene ug/m3	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10	Benzo(a) pyrene,ng/m3	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL
11	Arsenic as ng/m3	6	BDL	BDL	BDL	BDL	BDL	BDL	ND
12	Nickel As Ni mg/m3	20	BDL	BDL	BDL	BDL	BDL	BDL	ND

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Sound level Monitoring Report (Night time) – April 2022

Date: 14.04.2022

S. No	Area	Sound level in (dB)	Remarks/ Controls
01	Work permit station outside Area	54.8	--
02	Utility area Compressor 1 & 2	67.7	--
03	Cooling tower area	66.4	--
04	Compressor area	67.2	--
05	API-II Hot water system area	68.2	--
06	N2 Plant	64.1	--
07	Transformer yard	55.8	--
08	Water plant	60.5	--
09	Powerhouse	51.3	--
10	ETP LAB	52.4	--
11	ETP Blowers	67.7	--
12	MEE (Outside)	59.5	Off Mode
13	ETP intermediate tank area	57.8	--
14	ETP Panel room	52.8	--
15	Non CCOE	45.5	--
16	Solvent storage area	46.2	--
17	Boiler house (Inside)	65.5	Running
18	Boiler house DG area	62.8	Off Mode
19	Fire Hydrant Pump house	67.2	Off mode
20	Stores vehicle parking area	47.4	--
21	Main Security gate	55.5	--
22	API-I N2 plant	68.4	--
23	Brine chiller – API - Utility	67.3	--
24	High vacuum pump area API-II-	69.5	--
25	RO Plant	59.5	off
26	Decanter	53.3	off
27	Workshop/ Fabrication shed	48.6	--
28	Material entry Security gate	52.4	--
29	API-II Terrace	53.6	--
30	API-I Terrace	52.7	--

Note: Noise level monitored in the Time of 01:30 Hrs. to 03:50 Hrs

Monitoring Done By: S. R. M.
Date: 14.04.2022

Reviewed By: G. A. K.
Date: 20.04.2022

Sound level Monitoring Report (Day Time) – April 2022

Date: 18.04.2022

S. No	Area	Sound level in (dB)	Remarks/ Controls
01	Work permit station outside Area	53.4	--
02	Utility area Compressor 1 & 2	71.5	--
03	Cooling tower area	68.9	--
04	Compressor area	72.8	--
05	API-II Hot water system area	69.4	--
06	N2 Plant	71.6	--
07	Transformer yard	55.8	--
08	Water plant	71.5	--
09	Power house	57.4	--
10	ETP LAB	48.5	--
11	ETP Blowers	71.5	--
12	MEE (Outside)	55.8	Off Mode
13	ETP intermediate tank area	66.6	--
14	ETP Panel room	56.5	--
15	Non CCOE	50.4	--
16	Solvent storage area	53.1	-
17	Boiler house (Inside)	73.6	Running
18	Boiler house DG area	71.3	On Mode
19	Fire Hydrant Pump house	67.7	Jockey pump running
20	Stores vehicle parking area	52.5	--
21	Main Security gate	52.6	--
22	API-I N2 plant	70.5	--
23	Brine chiller – API - Utility	74.7	--
24	High vacuum pump area API-II	72.5	--
25	RO Plant	68.1	On Mode
26	Decanter	64.5	On Mode
27	Workshop/ Fabrication shed	74.2	--
28	Material entry Security gate	54.7	--
29	API-II Terrace	65.3	--
30	API-I Terrace	64.5	--

Note: Sound level monitored in the Time of 13:00 Hrs to 15.00 Hrs

Monitoring Done By: S. Tel. M.
Date: 18.04.2022

Reviewed By: gark
Date: 21.04.2022

Sound level Monitoring Report (Day Time) – May 2022

Date: 12.05.2022

S. No	Area	Sound level in (dB)	Remarks/ Controls
01	Work permit station outside Area	55.3	
02	Utility area Compressor 1 & 2	72.5	--
03	Cooling tower area	65.4	--
04	Compressor area	71.2	--
05	API-II Hot water system area	69.5	--
06	N2 Plant	71.8	--
07	Transformer yard	58.5	--
08	Water plant	71.3	--
09	Power house	57.8	--
10	ETP LAB	46.8	--
11	ETP Blowers	73.4	--
12	MEE (Outside)	56.5	Off Mode
13	ETP intermediate tank area	63.8	--
14	ETP Panel room	56.4	--
15	Non CCOE	51.2	--
16	Solvent storage area	54.7	-
17	Boiler house (Inside)	72.3	Running
18	Boiler house DG area	71.3	On Mode
19	Fire Hydrant Pump house	67.4	Jockey pump running
20	Stores vehicle parking area	58.3	--
21	Main Security gate	52.4	--
22	API-I N2 plant	71.5	--
23	Brine chiller – API - Utility	73.6	--
24	High vacuum pump area API-II	72.4	--
25	RO Plant	68.6	On Mode
26	Decanter	65.7	On Mode
27	Workshop/ Fabrication shed	72.3	--
28	Material entry Security gate	54.5	--
29	API-II Terrace	58.4	--
30	API-I Terrace	60.8	--

Note: Sound level monitored in the Time of 13:00Hrs. to 15:00Hrs.

Monitoring Done By: S. H. P. I

Date: 12.05.2022

Reviewed By: [Signature]

Date: 12.05.2022

Sound level Monitoring Report (Night time) – May 2022

Date: 11.05.2022

S. No	Area	Sound level in (dB)	Remarks/ Controls
01	Work permit station outside Area	55.8	--
02	Utility area Compressor 1 & 2	63.5	--
03	Cooling tower area	62.4	--
04	Compressor area	67.2	--
05	API-II Hot water system area	67.8	--
06	N2 Plant	66.1	--
07	Transformer yard	56.5	--
08	Water plant	62.1	--
09	Powerhouse	47.4	--
10	ETP LAB	53.3	--
11	ETP Blowers	64.5	--
12	MEE (Outside)	55.1	Off Mode
13	ETP intermediate tank area	54.8	--
14	ETP Panel room	52.3	--
15	Non CCOE	48.6	--
16	Solvent storage area	47.2	--
17	Boiler house (Inside)	67.1	Running
18	Boiler house DG area	64.6	Off Mode
19	Fire Hydrant Pump house	68.5	Off mode
20	Stores vehicle parking area	47.4	--
21	Main Security gate	55.8	--
22	API-I N2 plant	64.2	--
23	Brine chiller – API - Utility	57.3	--
24	High vacuum pump area API-II	64.5	--
25	RO Plant	55.5	off
26	Decanter	53.3	off
27	Workshop/ Fabrication shed	47.9	--
28	Material entry Security gate	55.2	--
29	API-II Terrace	52.7	--
30	API-I Terrace	51.3	--

Note: Noise level monitored in the Time of 03.30Hrs. to 05:30Hrs.

Monitoring Done By: S. K. P. N. I.
Date: 11.05.2022

Reviewed By: S. K. P. N. I.
Date: 12.05.2022.

Sound level Monitoring Report (Day Time) – June 2022

Date: 09.06.2022

<u>S. No</u>	<u>Area</u>	<u>Sound level in (dB)</u>	<u>Remarks/ Controls</u>
01	Work permit station outside Area	53.4	--
02	Utility area Compressor 1 & 2	73.1	--
03	Cooling tower area	66.7	--
04	Compressor area	68.4	--
05	API-II Hot water system area	68.5	--
06	N2 Plant	72.4	--
07	Transformer yard	55.6	--
08	Water plant	71.3	--
09	Power house	59.6	--
10	ETP LAB	46.8	--
11	ETP Blowers	71.3	--
12	MEE (Outside)	55.5	Off Mode
13	ETP intermediate tank area	63.8	--
14	ETP Panel room	56.3	--
15	Non CCOE	51.1	--
16	Solvent storage area	54.4	-
17	Boiler house (Inside)	75.3	Running
18	Boiler house DG area	72.7	On Mode
19	Fire Hydrant Pump house	65.7	Jockey pump running
20	Stores vehicle parking area	53.1	--
21	Main Security gate	51.7	--
22	API-I N2 plant	70.5	--
23	Brine chiller – API - Utility	73.5	--
24	High vacuum pump area API-II	71.1	--
25	RO Plant	67.3	On Mode
26	Decanter	66.3	On Mode
27	Workshop/ Fabrication shed	71.5	--
28	Material entry Security gate	54.8	--
29	API-II Terrace	57.7	--
30	API-I Terrace	62.4	--

Note: Sound level monitored in the Time of 15:00 Hrs. to 17:00 Hrs.

Monitoring Done By: S. H. R. N. I
Date: 09.06.2022Reviewed By: S. H. R. N. I
Date: 09.06.2022

Sound level Monitoring Report (Night time) – June 2022

Date: 11.06.2022

S. No	Area	Sound level in (dB)	Remarks/ Controls
01	Work permit station outside Area	55.9	--
02	Utility area Compressor 1 & 2	66.2	--
03	Cooling tower area	67.5	--
04	Compressor area	56.9	--
05	API-II Hot water system area	68.6	--
06	N2 Plant	67.8	--
07	Transformer yard	55.1	--
08	Water plant	62.3	--
09	Powerhouse	49.7	--
10	ETP LAB	54.5	--
11	ETP Blowers	67.5	--
12	MEE (Outside)	59.7	Off Mode
13	ETP intermediate tank area	56.9	--
14	ETP Panel room	52.3	--
15	Non CCOE	46.7	--
16	Solvent storage area	47.6	--
17	Boiler house (Inside)	68.1	Running
18	Boiler house DG area	63.4	Off Mode
19	Fire Hydrant Pump house	68.2	Off mode
20	Stores vehicle parking area	48.5	--
21	Main Security gate	56.7	--
22	API-I N2 plant	68.1	--
23	Brine chiller – API - Utility	68.3	--
24	High vacuum pump area API-II	67.2	--
25	RO Plant	57.6	off
26	Decanter	53.3	off
27	Workshop/ Fabrication shed	47.7	--
28	Material entry Security gate	51.4	--
29	API-II Terrace	52.8	--
30	API-I Terrace	56.4	--

Note: Noise level monitored in the Time of 01:30 Hrs. to 03:30 Hrs.

Monitoring Done By: S. M. In

Date: 11.06.2022

Reviewed By: S. M. In

Date: 12.06.2022

Sound level Monitoring Report (Day Time) – July-2022

Date: 11.07.2022

S. No	Area	Sound level in (dB)	Remarks/ Controls
01	Work permit station outside Area	49.2	--
02	Utility area Compressor 1 & 2	71.5	--
03	Cooling tower area	72.4	--
04	Compressor area	68.9	--
05	API-II Hot water system area	70.8	--
06	N2 Plant	73.1	--
07	Transformer yard	57.8	--
08	Water plant	61.7	--
09	Power house	55.3	--
10	ETP LAB	47.2	--
11	ETP Blowers	73.8	--
12	MEE (Outside)	62.5	Off Mode
13	ETP intermediate tank area	66.7	--
14	ETP Panel room	47.9	--
15	Non CCOE	52.7	--
16	Solvent storage area	57.5	--
17	Boiler house (Inside)	74.0	Running
18	Boiler house DG area	55.1	Off Mode
19	Fire Hydrant Pump house	65.3	Jockey Pump Running
20	Stores vehicle parking area	51.1	--
21	Main Security gate	52.2	--
22	API-I N2 plant	70.3	--
23	Brine chiller – API - Utility	71.1	--
24	High vacuum pump area API-II	78.4	--
25	RO Plant	68.1	Running
26	Decanter	67.9	Running
27	Workshop/ Fabrication shed	57.7	--
28	Material entry Security gate	55.6	--
29	API-II Terrace	64.8	--
30	API-I Terrace	65.9	--

Note: Noise level monitored in the Time of 13:00 Hrs. to 15:00 Hrs.

Monitoring Done By: Santhosh. P. S.
Date: 11.07.2022Reviewed By: [Signature]
Date: 12.07.2022

Sound level Monitoring Report (Night Shift) – July-2022

Date: 14.07.2022

S. No	Area	Sound level in (dB)	Remarks/ Controls
01	Work permit station outside Area	41.8	--
02	Utility area Compressor 1 & 2	69.1	--
03	Cooling tower area	68.1	--
04	Compressor area	67.9	--
05	API-II Hot water system area	67.5	--
06	N2 Plant	68.9	--
07	Transformer yard	52.8	--
08	Water plant	54.1	--
09	Power house	49.4	--
10	ETP LAB	47.6	--
11	ETP Blowers	68.3	--
12	MEE (Outside)	57.7	Off Mode
13	ETP intermediate tank area	54.4	--
14	ETP Panel room	44.9	--
15	Non CCOE	46.7	--
16	Solvent storage area	45.8	--
17	Boiler house (Inside)	67.3	Running
18	Boiler house DG area	53.9	Off Mode
19	Fire Hydrant Pump house	67.6	Jockey Pump Running
20	Stores vehicle parking area	45.2	--
21	Main Security gate	47.0	--
22	API-I N2 plant	67.3	--
23	Brine chiller – API - Utility	69.4	--
24	High vacuum pump area API-II	68.2	--
25	RO Plant	68.7	Running
26	Decanter	51.7	Off Mode
27	Workshop/ Fabrication shed	53.1	--
28	Material entry Security gate	48.8	--
29	API-II Terrace	62.5	--
30	API-I Terrace	61.2	--

Note: Noise level monitored in the Time of 01:30 Hrs. to 03:30 Hrs.

Monitoring Done By: Santosh N. S.
Date: 14.07.2022

Reviewed By: S.
Date: 15.07.2022

Sound level Monitoring Report (Day Time) – Aug 2022

Date: 10.08.2022

S. No	Area	Sound level in (dB)	Remarks/ Controls
01	Work permit station outside Area	52.5	--
02	Utility area Compressor 1 & 2	73.1	--
03	Cooling tower area	67.5	--
04	Compressor area	72.2	--
05	API-II Hot water system area	71.1	--
06	N2 Plant	71.2	--
07	Transformer yard	57.2	--
08	Water plant	72.3	--
09	Power house	58.4	--
10	ETP LAB	45.6	--
11	ETP Blowers	72.4	--
12	MEE (Outside)	53.6	Off Mode
13	ETP intermediate tank area	64.7	--
14	ETP Panel room	56.3	--
15	Non CCOE	51.3	--
16	Solvent storage area	54.7	-
17	Boiler house (Inside)	71.5	Running
18	Boiler house DG area	72.6	On Mode
19	Fire Hydrant Pump house	68.8	Jockey pump running
20	Stores vehicle parking area	58.2	--
21	Main Security gate	50.1	--
22	API-I N2 plant	70.4	--
23	Brine chiller – API - Utility	73.7	--
24	High vacuum pump area API-II	71.8	--
25	RO Plant	67.5	On Mode
26	Decanter	65.4	On Mode
27	Workshop/ Fabrication shed	72.1	--
28	Material entry Security gate	57.7	--
29	API-II Terrace	55.1	--
30	API-I Terrace	64.4	--

Note: Sound level monitored in the Time of 13:00Hrs. to 15:00Hrs.

Monitoring Done By:

Date:

10.08.2022

Reviewed By:

Date:

10.08.2022

Sound level Monitoring Report (Night time) – Aug 2022

Date: 17.08.2022

S. No	Area	Sound level in (dB)	Remarks/ Controls
01	Work permit station outside Area	54.5	--
02	Utility area Compressor 1 & 2	62.2	--
03	Cooling tower area	65.7	--
04	Compressor area	65.3	--
05	API-II Hot water system area	64.6	--
06	N2 Plant	63.5	--
07	Transformer yard	58.5	--
08	Water plant	63.4	--
09	Powerhouse	48.9	--
10	ETP LAB	54.4	--
11	ETP Blowers	67.5	--
12	MEE (Outside)	57.8	Off Mode
13	ETP intermediate tank area	57.4	--
14	ETP Panel room	52.2	--
15	Non CCOE	47.8	--
16	Solvent storage area	46.9	--
17	Boiler house (Inside)	68.3	Running
18	Boiler house DG area	62.7	Off Mode
19	Fire Hydrant Pump house	67.4	Off mode
20	Stores vehicle parking area	48.8	--
21	Main Security gate	53.4	--
22	API-I N2 plant	62.2	--
23	Brine chiller – API - Utility	54.3	--
24	High vacuum pump area API-II	62.5	--
25	RO Plant	56.6	off
26	Decanter	54.3	off
27	Workshop/ Fabrication shed	48.2	--
28	Material entry Security gate	52.2	--
29	API-II Terrace	51.5	--
30	API-I Terrace	54.6	--

Note: Noise level monitored in the Time of 02.00Hrs. to 04.00Hrs.

Monitoring Done By: 
Date: 17.08.2022

Reviewed By: 
Date: 18.08.2022

Sound level Monitoring Report (Night time) – Sept 2022

Date: 14.09.2022

S. No	Area	Sound level in (dB)	Remarks/ Controls
01	Work permit station outside Area	52.8	--
02	Utility area Compressor 1 & 2	68.9	--
03	Cooling tower area	69.4	--
04	Compressor area	54.9	--
05	API-II Hot water system area	64.5	--
06	N2 Plant	65.4	--
07	Transformer yard	57.2	--
08	Water plant	64.1	--
09	Powerhouse	47.8	--
10	ETP LAB	51.5	--
11	ETP Blowers	67.6	--
12	MEE (Outside)	59.2	Off Mode
13	ETP intermediate tank area	55.9	--
14	ETP Panel room	52.3	--
15	Non CCOE	45.8	--
16	Solvent storage area	48.6	--
17	Boiler house (Inside)	67.1	Running
18	Boiler house DG area	66.4	Off Mode
19	Fire Hydrant Pump house	68.3	Off mode
20	Stores vehicle parking area	47.5	--
21	Main Security gate	56.6	--
22	API-I N2 plant	69.6	--
23	Brine chiller – API - Utility	66.2	--
24	High vacuum pump area API-II	68.5	--
25	RO Plant	57.5	off
26	Decanter	58.5	off
27	Workshop/ Fabrication shed	47.9	--
28	Material entry Security gate	52.8	--
29	API-II Terrace	52.5	--
30	API-I Terrace	57.4	--

Note: Noise level monitored in the Time of 02:30 Hrs. to 04:30 Hrs.

Monitoring Done By: 
Date:

14.09.2022

Reviewed By: 

Date: 15.09.2022.

Sound level Monitoring Report (Day Time) – Sept 2022

Date: 16.09.2022

S. No	Area	Sound level in (dB)	Remarks/ Controls
01	Work permit station outside Area	54.7	--
02	Utility area Compressor 1 & 2	71.4	--
03	Cooling tower area	67.9	--
04	Compressor area	66.4	--
05	API-II Hot water system area	68.5	--
06	N2 Plant	72.2	--
07	Transformer yard	54.6	--
08	Water plant	70.2	--
09	Power house	59.7	--
10	ETP LAB	45.4	--
11	ETP Blowers	71.3	--
12	MEE (Outside)	52.4	Off Mode
13	ETP intermediate tank area	63.7	--
14	ETP Panel room	57.3	--
15	Non CCOE	50.2	--
16	Solvent storage area	53.4	-
17	Boiler house (Inside)	71.2	Running
18	Boiler house DG area	70.3	On Mode
19	Fire Hydrant Pump house	69.7	Jockey pump running
20	Stores vehicle parking area	52.3	--
21	Main Security gate	51.8	--
22	API-I N2 plant	72.4	--
23	Brine chiller – API - Utility	73.6	--
24	High vacuum pump area API-II	71.1	--
25	RO Plant	68.4	On Mode
26	Decanter	65.0	On Mode
27	Workshop/ Fabrication shed	71.5	--
28	Material entry Security gate	55.7	--
29	API-II Terrace	57.5	--
30	API-I Terrace	65.2	--

Note: Sound level monitored in the Time of 14:00 Hrs. to 16:00 Hrs.

Monitoring Done By: G3

Date:

16.09.2022

Reviewed By: [Signature]

Date:

16.09.2022

Sound level Monitoring Report (Night time) – Oct 2022

Date: 11.10.2022

S. No	Area	Sound level in (dB)	Remarks/ Controls
01	Work permit station outside Area	55.4	--
02	Utility area Compressor 1 & 2	67.3	--
03	Cooling tower area	66.2	--
04	Compressor area	66.5	--
05	API-II Hot water system area	66.6	--
06	N2 Plant	64.5	--
07	Transformer yard	55.8	--
08	Water plant	61.3	--
09	Powerhouse	50.3	--
10	ETP LAB	52.4	--
11	ETP Blowers	68.9	--
12	MEE (Outside)	58.1	Off Mode
13	ETP intermediate tank area	57.8	--
14	ETP Panel room	52.3	--
15	Non CCOE	44.5	--
16	Solvent storage area	43.2	--
17	Boiler house (Inside)	68.3	Running
18	Boiler house DG area	62.5	Off Mode
19	Fire Hydrant Pump house	68.2	Off mode
20	Stores vehicle parking area	47.6	--
21	Main Security gate	55.3	--
22	API-I N2 plant	68.5	--
23	Brine chiller – API - Utility	68.2	--
24	High vacuum pump area API-II	69.6	--
25	RO Plant	59.4	off
26	Decanter	52.8	off
27	Workshop/ Fabrication shed	49.5	--
28	Material entry Security gate	51.2	--
29	API-II Terrace	53.4	--
30	API-I Terrace	54.7	--

Note: Noise level monitored in the Time of 01:30 Hrs. to 03:45 Hrs

Monitoring Done By: 

Date:

11.10.2022

Reviewed By: 

Date: 12.10.2022

No: CIP/PCB/2021/06/04

Date: 04.06.2021

To

The Chief officer

Jigani-Town Municipal Council

Jigani-Anekal taluk

Bangalore-560105

Respected Sir


Sub: intimation of Environmental clearance (EC) By MOEF to Cipla Bommasandra.

With reference to the above subject we are glade to inform u that, we have received environmental clearance of change product mix of the unit was accorded by MOEF impact assessment division on 22 April 2020 vide letter No:F.No J-11011/382/2019-IA-II (I)] subsequently amendment letter is received on 9th December 2020. environmental clearance copy attached with same letter. this is for kind perusal.

Kindly acknowledge the receipt of the same.

Thanking you

Sincerely Yours
For Cipla Limited


Pradeep Gupta
(Site Head)



Cipla Ltd.

100% EOU, Plot No. 285, 286 & 287, Bommasandra-Jigani Link Road Industrial Area, KIALDE 4th Phase, Jigani Post, Bangalore - 560 105
P : 91 80 22059200 F : 91 80 22059220 E-Mail adminbms@cipla.com

Regd. Office - Cipla House, Peninsula Business Park, Ganpatirao Kadam Marg, Lower Parel, Mumbai 400013, India

P : 91 22 24826000 F : 91 22 24826120 W www.cipla.com E-Mail contactus@cipla.com Corporate Identity Number L24239MH4935PLC007580

Annexure-6

The screenshot shows a web browser window with two tabs: 'Manufacturing | Cipla' and 'EC Compliance Report Summary'. The address bar shows 'cipla.com/about-us/manufacturing'. The Cipla logo is at the top left, and a search icon is at the top right. A navigation menu includes: About Us, Our Presence, Our Offerings, Covid Care, Investors, Careers, Media Centre, Corporate Social Responsibility, and Contact Us. Below the menu, a horizontal line separates the header from the main content. The main content area has the heading 'Ministry of Health of various countries.' followed by a bulleted list of documents: EC report of Kurkumbh Unit I, EC report of Kurkumbh Unit II, EC report of Kurkumbh Unit III, EC report of Virgonagar, EC report of Bommansandra, EC copy of Bommansandra, Mandali Depot Compliance, Environment Statement 20-21_BMS, and Environment Statement 20-21_VRG. Below this list is the heading 'Cipla Contractor Compliance Documents' followed by another bulleted list: ADECCO, CREKK, and GENUIS. At the bottom of the page, there is a dark grey banner with the text 'API' on the left and 'Formulation development' on the right. The Windows taskbar is visible at the very bottom, showing the Start button, a search bar with the text 'Type here to search', and several application icons. The system clock in the bottom right corner shows the date '21.11.2022' and the time '12:22'.

Manufacturing | Cipla x EC Compliance Report Summary x +

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Ministry of Health of various countries.

- EC report of Kurkumbh Unit I
- EC report of Kurkumbh Unit II
- EC report of Kurkumbh Unit III
- EC report of Virgonagar
- EC report of Bommansandra
- EC copy of Bommansandra
- Mandali Depot Compliance
- Environment Statement 20-21_BMS
- Environment Statement 20-21_VRG

Cipla Contractor Compliance Documents

- ADECCO
- CREKK
- GENUIS

API Formulation development

Type here to search 12:22 21.11.2022

EC Advertisement in English News Paper (DECCAN HERALD) and
 Kannada Paper (PRAJA VANI), Dated. 03.06.2021

DECCAN HERALD
 Thursday
 June 3, 2021

STATE

→ See pages 7, 8, 9 for more
 Karnataka stories

3

NOTICE

Environmental clearance for the change in product mix of the unit was accorded by MOEF, Impact Assessment Division on 22nd April 2020, vide letter no. F.No.-J-11011/382/2019-IA-II(I)) subsequently amendment letter received on 9th December-2020 to CIPLA LIMITED, Bommasandra-560105 and can be seen in website www.environmentclearance.nic.in.

ಹುಬ್ಬಳ್ಳಿ, 3.6.2021 | ಬೆಂಗಳೂರು | 4.6.2021 | ಪುಟ 74 | ಸಂಖ್ಯೆ 184 | ಭಾಗ 12-3

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 ಬಹುಮಾನದ ಅರ್ಜಿ
 ಅರ್ಜಿ ಸಲ್ಲಿಸಿ, ಮೊದಲ ಬಾರಿ
 ಅರ್ಜಿ ಸಲ್ಲಿಸಿದವರು ಪ್ರಶಸ್ತಿಗೆ
 ಭಾಗಿಯಾಗುವುದು ಅವಕಾಶ.



ಆಕ-ಅಗಲ
 ಪ್ರಜಾ ವಾಣಿ

ಹೊಸಪೇಟೆ 10
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ಸಂಖ್ಯೆ: 15/572/2009

ಪ್ರಕಟಣೆ

ಪರಿಸರ ಕ್ಷಯವನ್ನು ಅನ್ನು ಘಟಕದ
 ಉತ್ಪನ್ನ ಮಿಶ್ರಣದಲ್ಲಿನ ಬದಲಾವಣೆಗೆ
 ಏಪ್ರಿಲ್ 22, 2020 ರಂದು ಇಂಪ್ಯಾಕ್ಟ್
 ಅಸೆಸ್ಮೆಂಟ್ ವಿಭಾಗದ ಎಂಪಿಐಎಫ್.
 ವೈಡ್ ಲೆಟರ್ ನಂ 11011/382/2019
 ತರುವಾಯ ತಿದ್ದುಪಡಿ ಪತ್ರವನ್ನು
 ಡಿಸೆಂಬರ್ 9 2020 ರಂದು ಸುಪ್ರಾ
 ಲಿಮಿಟೆಡ್, ಮೊಮ್ಮಸಂದ್ರ 560105
 ಅನುಮೋದಿಸಿದೆ ಮತ್ತು ಇದನ್ನು ವೆಬ್
 ಸೈಟ್ www.environmentclearance.nic.in ನಲ್ಲಿ
 ನೋಡಬಹುದು