



Bhagiradha Chemicals & Industries Limited.

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Date: 22.11.2025

To,
The Regional officer
Integrated Regional Office {IRO}, Vijayawada,
Ministry of Environment, Forest and Climate Change,
Green House Complex, Gopalareddy Road,
Vijayawada-520010, Andhra Pradesh.

Sub: Submission of EC Six Monthly Compliance report of M/s. Bhagiradha Chemicals & Industries Ltd Sy, Nos. 191, 213 to 217 & 220, Cheruvukommupalem (V), Ongole (M), Prakasam District. -Reg.

Ref: 1) Environmental Clearance File No. J-11011/429/2008 - IA II (I) Date: 21. 10. 2008
2) EC Amendment File No: J-1101/429/2008-IA.II (I) Date: 15.10.2020

Respected Sir,

With reference to above, we M/s. Bhagiradha Chemicals & Industries Ltd, at Sy, Nos. 191, 213 to 217 & 220, Cheruvukommupalem (V), Ongole (M), Prakasam District, Andhra Pradesh. We herewith submit six monthly compliance reports of Environmental Clearance vide ref (1)(2), cited above to Integrated Regional Office, Vijayawada for the period 01st April 2025 to 30th September 2025 as on December 2025 for the said project for your kind perusal.

Thanking you

Yours faithfully

For M/s. Bhagiradha Chemicals & Industries Ltd.,

(M. Venkata Narayana)

Manager - Safety, Health & Environment

2025

EC SIX MONTHLY COMPLIANCE

01ST APRIL 2025 to 30TH SEPTEMBER 2025
As On DECEMBER 2025

Submitted to

The Regional officer
Integrated Regional Office {IRO}, Vijayawada,
Ministry of Environment, Forest and Climate Change,
Green House Complex, Gopalareddy Road,
Vijayawada-520010,
Andhra Pradesh.

Submitted by

M/s. Bhagiradha Chemicals & Industries Ltd,
Sy, Nos 191, 213 to 217 & 220, Cheruvukommupalem
(V), Ongole (M), Prakasam District

PREPARED BY

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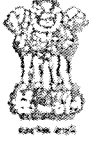
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Annexure - 1
Environmental Clearance Order
& EC Amendment Order



भारत सरकार
पर्यावरण एवं वन मंत्रालय
Government of India
Ministry of Environment & Forests
(IA Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi - 110 003
E-mail: plahujarai@yahoo.com
Telefax: 011: 2436 3973

F. No. J-11011/429/2008- IA I (I)

Dated October 21, 2008

To,

The Executive Director
M/s Bhagiradha Chemicals & Industries Limited
8-2-248/A/B, Road No. 3, Banjara Hills,
Hyderabad - 500 034
Andhra Pradesh

Email: info@bhagirad.com

Subject: Expansion of Pesticide unit located at Survey no. 191, 213-217 and 220, Cheruvukommupalem Village, Ongole Mandal, Prakasam District Andhra Pradesh by M/s Bhagirdha Chemicals & Industries Limited - Environmental clearance regd.

Sir,

This has reference to your letter no. Nil dated 24th May, 2008 along with form 1, pre-feasibility report and EIA/EMP report on the above mentioned subject seeking environmental clearance under the Environment Impact Assessment Notification, 2006

2. The Ministry of Environment and Forests has examined your proposal. It is noted that M/s. Bhagiradha Chemicals and Industries Ltd have submitted a proposal for expansion of technical grade pesticide manufacturing unit from 3200 TPA to 3250 TPA by inclusion of 2 new products and by reduction of manufacturing capacity of 3 products. The unit obtained environmental clearance in December, 2006 for manufacture of Chlorpyrifos, chlorpyrifos-methyl, Imidacloprid, Tryclopir and Fluoroxypir with an annual capacity of 3200 Tons. The industry is proposing to introduce 2 products, viz Clodinafop-propargyl and Fipronil. The capacity would be 100 TPA for Clodinafop-propargyl and 200 TPA for Fipronil. It is proposed to reduce the manufacturing capacity of chlorprifhos, chlorpyrifos - methyl, fluoroxypir, while increasing the annual capacity **by a 50 TPA to achieve 3250 TPA**. The unit is located in Prakasam District in Andhra Pradesh. Area available for the project is 35.76 acres and 11.8 acres is earmarked for green belt development. There are no notified sanctuaries, national parks or ecologically sensitive areas within 10 km of the site. The Project does not involve any R & R. The capital cost of the expansion project is Rs. 7.66 Crores.

3. The total water requirement for the existing and proposed unit would be met from the ground water sources. The present water requirement for project is 274 m³/d and after expansion, water requirement would be 316 m³/d. The maximum quantity of waste water generated at present is 60.514 m³/day, while the proposed expansion would generate 82.72 m³/day. The unit is having an effluent treatment plant with a capacity of 100 KLD. The waste streams would be segregated into high TDS, low TDS, inorganic effluent and organic effluent and will be treated in Multiple Effect Evaporator, ETP and incineration system. The inorganic effluent would be neutralized before sent to ETP. The condensate from the evaporator will be treated in ETP. The existing 12 TPH coal fired boiler is provided with a bag filter to control the particulate emissions. No new utilities except 2 nos. of 500 KVA DG sets are proposed. The process vents would be connected to scrubber. To control the process emissions in the form of HCL, NH₃ and SO₂ Caustic scrubber and water scrubber would be provided.

4. Solid wastes would be generated from rotary kiln(15.8 MTPE-), ash from coal fired boiler and ETP sludge (25 kg/day). Temporary waste storage facility is provided in the plant premises for the storage of hazardous wastes. The hazardous wastes from Rotary kiln, ash from incinerator, and the sludge from ETP would be packed in HDPE bags and sent to TSDF Dundigal in Ranga Reddy district. The recyclable wastes of used batteries and waste oil (1.4 l/d) will be sent to authorized recyclers. The coal ash from the boiler(13500 kg/d) will be sold to brick manufacturers.

5. All the pesticide manufacturing units are listed at serial no. 5(b) of schedule of EIA Notification, 2006 and categorized under 'A' category. The Expert Appraisal Committee(I) considered the project in its 85th meeting held during 23rd-25th September, 2008. The Committee recommended the project for environmental clearance as per para 7(ii) of EIA Notification, 2006 exempting it from public hearing.

6. Based on the information submitted by the project authorities, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification, dated 14th September 2006 subject to the compliance of the following Specific and General Conditions:

A. SPECIFIC CONDITIONS:

- (i) The effluent shall be segregated into high COD, high TDS, Low TDS, Inorganic effluent and organic effluent streams. The high TDS effluent shall be treated in Multiple effect evaporator. The distillate from the multiple effect evaporator system and condensate from the ejectors shall be treated in ETP. The inorganic effluent shall be neutralized before sending it to ETP. The treated effluent shall conform to the prescribed standards. The organic waste stream shall be incinerated in the incinerator.
- (ii) The gaseous emissions (SO₂, NO_x, VOC, NH₃ and HCl) along with SPM and RSPM from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.

- (iii) The process emissions in the form of HCl shall be scrubbed with caustic scrubber and NH₃ shall be scrubbed with water scrubber followed by caustic scrubber. The spent scrubber solution shall be sent to multiple effect evaporator.
- (iv) The flue gases from the rotary kiln and the incinerator after cooling in a gas cooler shall be scrubbed through a caustic scrubber. The scrubbed solution shall be sent to MEE system. The particulate emissions from the 12 TPH Fluidized Bed Coal fired boiler shall be controlled by bag filter to meet the emissions standards less than 50 ng/Nm³. The gaseous emissions from the DG sets shall be dispersed through stack height as per CPCB standards. Acoustic enclosures shall be provided to mitigate the noise pollution.
- (v) Standards notified for pesticides unit under the Environment (Protection) Act, 1986 and amended time to time shall be followed by the Unit.
- (vi) The unit shall carry out monitoring of VOC in the ambient air and data submitted to the Ministry/State Pollution Control Board.
- (vii) Chilled brine for the secondary condenser shall be installed for recovery of solvents.
- (viii) The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management and Handling) Rules, 2003 for management of Hazardous wastes and prior permission from APPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. Measures shall be taken for fire fighting facilities in case of emergency.
- (ix) Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits imposed by APPCB.
- (x) All the storage tanks shall be under negative pressure to avoid any leakages. Breathers, N₂ blanketing and condensers will be provided for all the storage tanks. Closed handling systems for chemicals and solvents will be provided. Magnetic seals will be provided for pumps/agitators for reactors for reduction of fugitive emissions. Chilled Brine based condensers shall be used to prevent VOC emissions. Solvent traps shall be installed wherever necessary.
- (xi) All venting equipment shall have vapour recovery system. All the pumps and other equipments where there is a likelihood of HC leakages shall be provided with Leak Detection and Repair (LDAR) system and LEL indicators and Hydrocarbon detectors. Provision for immediate isolation of such equipment, in case of a leakage will also be made. The company shall provide a well defined Leak Detection and Repair (LDAR) programme for quantification and control of fugitive emissions. The detectors sensitivity will be in ppm levels.
- (xii) During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste and storm drains.

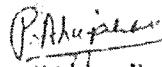
- (xiii) The company shall make adequate arrangement for control of odour nuisance from the plant premises.
- (xiv) The adequate financial provisions shall be made in the budget of the project for implementation of the above suggested environmental safeguards. Fund so earmarked shall not be diverted for any other purposes.
- (xv) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (xvi) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
- (xvii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- (xviii) Usage of PPEs by all employees/workers shall be ensured.
- (xix) The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP).
- (xx) The company shall adopt waste minimization /cleaner production techniques to reduce the pollution load and action plan in this regard submitted to the Ministry.
- (xxi) The company shall undertake rainwater harvesting measures to recharge the ground water as well as reduced consumption of water.
- (xxii) Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.

B. GENERAL CONDITIONS

- i. The project authorities shall strictly adhere to the stipulations of the SPCB/state government or any statutory body.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. 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 assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.

- iii) The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended. Authorization from the SPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.
- iv) Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentration are anticipated in consultation with the State Pollution Control Board.
- v) For control of process emissions, stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided. The scrubbed water shall be sent to ETF for further treatment.
- vi) The company shall undertake following Waste Minimization measures :-
 - Metering of quantities of active ingredients to minimize waste.
 - Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - Maximizing recoveries
 - Use of automated material transfer system to minimize spillage.
 - Use of "Closed Feed" system into batch reactors.
- vii) The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the SPCB shall be obtained for collections/treatment/ storage/disposal of hazardous wastes.
- viii) The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- ix) A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the environmental management and monitoring functions.
- x) The project authorities shall develop greenbelt in 33% of project area as per the guidelines of CPCB to mitigate the effect of fugitive emission.
- xi) The implementation of the project vis-à-vis environmental action plans shall be monitored by Ministry's Regional Office /SPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies.

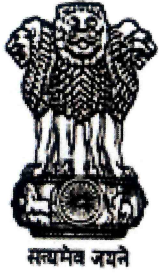
- xii) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two 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 Ministry's Regional Office.
- xiii) The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
7. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
8. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.
9. Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.
10. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


(Dr. P. L. Ahujara)
Director

Copy to:

1. The Secretary, State Dept. of Environment, Government of Andhra Pradesh, Mantralaya, Hyderabad.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office, Complex, East Arjun Nagar, Delhi-110032.
3. The Chairman, Andhra Pradesh State Pollution Control Board, 2nd Floor, HUDA Complex, Maltrivaram, S.R.Nagar, Hyderabad- 500 038.
4. The Chief Conservator of Forests (Central), Regional Office (SZ), Kendriya Sadan, IVth Floor, E&F Wing, 17th Main Road, Koramangala, Bangalore-560034.
5. Monitoring Cell, Ministry of Environment and Forests, Prayavaran Bhavan, CGO Complex, New Delhi- 110003.
6. Guard file.
7. Record file
8. Monitoring file.

(Dr. P. L. Ahujara)
Director



सत्यमेव जयते

By Speed Post/Online

F.No. J-11011/429/2008-IA.II (I)
Government of India
Ministry of Environment, Forest and Climate Change
Impact Assessment Division

Indira Paryavaran Bhawan
Jorbagh Road, New Delhi - 110003

Dated: 15th October, 2020

To

M/s Bhagirdha Chemicals & Industries Limited

Cheruvukommupalem Village, Ongole Mandal

Prakasam District, Andhra Pradesh - 523272

Email: info@bhagirad.com

Sub: Expansion of Technical Grade Pesticide Manufacturing Unit at Sy. No's 191, 213-217 and 220, Village Cheruvukommupalem, Mandal Ongole, District Prakasam, Andhra Pradesh by M/s Bhagirdha Chemicals & Industries Limited – Amendment in Environmental Clearance - reg.

Sir,

This has reference to your proposal No. IA/AP/IND2/164305/2020 dated 20th July, 2020 on the above subject matter.

2. The Ministry earlier has granted environmental clearance vide letter dated 21st October, 2008 to the project for expansion of Technical grade Pesticide manufacturing unit from 3200 TPA to 3250 TPA by M/s Bhagirdha Chemicals & Industries Limited located at Sy. no's 191, 213-217 and 220, Cheruvukommupalem Village, Ongole Mandal, Prakasam District, Andhra Pradesh.

3. The project proponent has now requested for amendment in the environmental clearance as under. It is reported that there shall be no change in production capacity, project location and area of the project.

S. No	Description	Unit	As per EC	Amendment Sought	Total after amendment
1	Water Consumption				
	Fresh Water	KLD	317	306.2	306.2
	Reuse of treated Water				
	Utility Make-up	KLD	---	125	125
	Greenbelt development	KLD	156	21	21
2	Effluent Generation				
	Process	KLD	82.72	---	82.72
	Utility Blow Downs	KLD	59.95	44	44
	Condensate from Steam Jet Ejectors	KLD	25.2	---	25.2
	Domestic Wastewater	KLD	21	--	21
3	Change in Boiler Profile				
	No. of Boiler	No.s	3	2	2
	Total Capacity	TPH	1 x 12 1 x 5 & 1 x 3 (standby)	1 x 16 1 x 8 (standby)	1 x 16 1 x 8 (standby)

4. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its meeting held on 17-19 August, 2020 in the Ministry. The EAC noted that the amendment sought is due to change in boiler profile for implementation of zero liquid discharge facility. It requires additional steam and cooling tower, resulting in additional water consumption, while ensuring the entire effluent quantity is reused in cooling tower makeup, resulting in reduction in water and wastewater generation. The Committee after detailed deliberations recommended for amendment in EC as proposed by the project proponent. All other terms and conditions shall remain unchanged.

5. Based on recommendations of the EAC, the Ministry hereby accords approval for amendment in the environmental clearance dated 21st October, 2008, **as per para 3 above**, with all other terms and conditions stipulated therein remain unchanged.

6. This issues with approval of the competent authority.

15/10/2020
(Dr. R. B. Lal)

Scientist 'E'/Additional Director

(डा. आर. बी. लाल)
(Dr. R. B. LAL)

वैज्ञानिक 'ई'/Scientist 'E'
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Min. of Environment, Forest and Climate Change
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi

Copy to: -

1. The Deputy DGF (C), MoEF&CC, Regional Office (SEZ), Ist & IInd Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai
2. The Secretary, Department of Environment, Forests, Science and Technology, Government of Andhra Pradesh, A.P Secretariat Office, Velagapudi, Guntur (AP)
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 32
4. The Member Secretary, Andhra Pradesh Pollution Control Board, D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre, Chalamvari Street, Kasturibaipet, Vijayawada - 8
5. Guard File/Monitoring File/Website/Record File

(Dr. R. B. Lal)

Scientist 'E'/Additional Director

Tele-fax: 011-24695362

Email-rb.lal@nic.in

Annexure - 2
Compliance of Environmental Clearance

BHAGIRADHA CHEMICALS & INDUSTRIES LIMITED.,
COMPLIANCE FOR ENVIRONMENTAL CLEARANCE
F.NO.J-11011/429/2008 - IA II (I) DATED 21ST OCTOBER, 2008
EC Amendment File No: J-1101/429/2008-IA.II (I) Date: 15.10.2020
FOR THE PERIOD OF 01ST APRIL 2025 TO 30TH SEPTEMBER 2025

SPECIFIC CONDITIONS:

S.No	CONDITIONS	COMPLIANCE
1	The effluent shall be segregated into high COD, high TDS, Low TDS, Inorganic effluent and organic effluent streams. The high TDS effluent shall be treated in Multiple effect evaporator. The distillate from the multiple effect evaporator system and condensate from the ejectors shall be treated in ETP. The inorganic effluent shall be neutralized before sending it to ETP. The treated effluent shall conform to the prescribed standards. The organic waste stream shall be incinerated in the incinerator.	The Management of the Company is conscious in maintaining pollutant free surroundings. We have complied with the Environmental Management Plan. We have treating high COD, high TDS, Low TDS and High COD effluents through Stripper, MEE, ATFD, Electro Oxidation Treatment plant followed by RO. Treated water using cooling tower make up. Inorganic solids are sending to TSDF. The organic wastes are sending to the Authorized preprocessors/ cement plants for Co- processing (as utilizable waste).
2	The gaseous emissions (SO ₂ , NO _x , VOC, NH ₃ and HCl) along with SPM and RSPM from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	The gaseous emissions from process units viz HCl and ammonia are scrubbed with caustic lye. Neutralization is ensured by maintaining pH 10.0 Ammonia is scrubbed with water in primary and secondary scrubbers. In the event of failure of pollution control systems, the plant shall be stopped and shall be restarted only after rectifying the control system.
3	The process emissions in the form of HCl shall be scrubbed with caustic scrubber and NH ₃ shall be scrubbed with water scrubber followed by caustic scrubber. The spent scrubber solution shall be sent to multiple effect evaporator.	The spent caustic from HCl scrubber and scrubber solution from Ammonia secondary scrubber is sent to Multiple Effect Evaporators (MEE) followed by Agitated Thin Film Dryer (ATFD) for converting it into inorganic solid.
4	The flue gases from the rotary kiln and the incinerator after cooling in a gas cooler shall be scrubbed through a caustic scrubber. The scrubbed solution shall be sent to MEE system. The particulate emissions from the 12 TPH Fluidized Bed Coal fired boiler shall be controlled by bag filter to meet the emissions standards less than 50 mg/Nm ³ . The gaseous emissions from the DG sets	As per APPCB Directions we have dismantled the Rotary kiln. We have provided ATFDs for Drying the Inorganic Solids in influents. We have provided two stage scrubber for vents condensers of ATFDs. The scrubber solution is sent to MEE system. Bag filter is provided to control the emission requirements of SPM of fluidized bed coal fired boiler. DG sets are provided

	shall be dispersed through stack height as per CPCB standards. Acoustic enclosures shall be provided to mitigate the noise pollution.	with stack heights as per CPCB norms.
5	Standards notified for pesticides unit under the Environment (Protection) Act, 1986 and amended time to time shall be followed by the Unit.	The company following standards notified for pesticides unit under the environment (Protection) Act, 1986 and their amendments.
6	The unit shall carry out monitoring of VOC in the ambient air and data submitted to the Ministry State Pollution Control Board.	The Company has provided on line VOC monitoring system and connected to CPCB/APPCB website.
7	Chilled brine for the secondary condenser shall be installed for recovery of solvents.	For solvent recovery, secondary condensers with chilled brine circulation has installed where ever necessary.
8	The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management and Handling) Rules, 2003 for management of Hazardous wastes and prior permission from Andhra Pradesh Pollution Control Board shall be obtained for disposal of solid / hazardous waste in the TSDF. Measures shall be taken for firefighting facilities in case of emergency.	The company has obtained Authorization for collection, storage and disposal of hazardous waste from Andhra Pradesh Pollution Control Board. The authorization is valid up to 28-02-2028. Firefighting facilities are provided to meet any emergency.
9	Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits imposed by Andhra Pradesh Pollution Control Board.	To control fugitive emissions, Raw materials and intermediates are handled in closed systems by provided with fume extraction system consisting of hood and blower connected to scrubbers. Nitrogen (N ₂) blanket is provided wherever necessary. Pollution control equipment are maintained and kept in good condition. All the stipulated parameters are monitoring and the values are within the limits, imposed by Andhra Pradesh Pollution Control Board.
10	All the storage tanks shall be under negative pressure to avoid any leakages. Breathers, N ₂ blanketing and condensers will be provided for all the storage tanks. Closed handling systems for chemicals and solvents will be provided Magnetic seals will be provided for pumps / agitators for reactors for reduction of fugitive emissions. Chilled Brine based condensers shall be used to prevent VOC emissions. Solvent traps shall be installed wherever necessary.	All the storage tanks are having Breathes & N ₂ blanketing provided. All reactors and pumps have Mechanical seals to avoid any leakages. Three stage condenser system has provided with RT water, chilled water & chilled brine to prevent solvent losses.

11	All venting equipment shall have vapour recovery system. All the pumps and other equipment's where there is a likelihood of HC leakages shall be provided with Leak Detection and Repair (LDAR) system and LEL indicators and Hydrocarbon detectors. Provision for immediate isolation of such equipment in case of a leakage will also be made. The company shall provide a well defined Leak Detection and Repair (LDAR) programme for quantification and control of fugitive emissions. The detectors sensitivity will be in ppm levels.	All Vents are connected to a vent scrubber. Leak Detection and Repair (LDAR) studies are carrying in our unit to reactor seals, pump seals, valves, flange joints etc to control of fugitive emissions. Scrubbers are provided in all production blocks. The spent scrubber solution is treated in ETP.
12	During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste and storm drains.	Separate collection pits are provided in each production block to collect any accidental spillages during transfer of materials are washed and washings shall be admitted into effluent collection system only and shall not be allowed to find their way in storm drains or open areas.
13	The company shall make adequate arrangement for control of odour nuisance from the plant premises.	Vent scrubbers are provided for mitigating smell problems.
14	The adequate financial provisions shall be made in the budget of the project for implementation of the above suggested environmental safeguards. Fund so earmarked shall not be diverted for any other purposes.	The funds allocated for capital and recurring expenditure used exclusively for maintaining pollutant free environment surrounding.
15	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	The company is drawing the services of local senior medical practitioner for carrying out the periodical health check-ups for work man. Health records are maintained.
16	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Flame proof fittings are provided in process plant. Dedicated fire hydrant system is provided in the solvent storage area. Foam, CO2, dry chemical powder extinguishers are kept at appropriate places.
17	Training shall be imparted to all employees on safety and health aspects of chemicals 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.	Medical check-up before recruitment of the employee is carried out. Health centre with facilities is established in the premises. Training has provided to all employees handling toxic chemicals Pre-employment and after employment.
18	Usage of PPEs by all employees/workers shall be ensured.	Safety awareness training is provided. Personal protective equipment to all employees is provided.



19	The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP).	Complied by the industry.
20	The company shall adopt waste minimization / cleaner production techniques to reduce the pollution load and action plan in this regard submitted to the Ministry.	The industry is following good manufacturing practices. Solvent losses are reduced by providing dry vacuum pump. The rejects water from RO are using in the process. The condensate is used as boiler feed water from ATFDs in ETP. The continuous efforts of technical team to improve the process conversion have resulted in minimum waste and toxic residues.
21	The company shall undertake rainwater harvesting measures to recharge the ground water as well as reduced consumption of water.	The company provided rain water harvesting facility to collect water and it is used for regular water requirement.
22	Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. the housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	Local personnel are preferred for constructions labour. Safe drinking water, medical health care etc. Provided to construction labour.
GENERAL CONDITIONS:		
i)	The project authorities shall strictly adhere to the stipulations of the SPCB / State Government or any statutory body.	The company will strictly adhere to the stipulations made by Andhra Pradesh Pollution Control Board in their CFE.
ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. 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 assess adequacy of the conditions imposed and to add additional environmental protection measures required, if any.	Any expansion or modifications will have the approval of Andhra Pradesh Pollution Control Board and Ministry of Environment & Forests.

iii)	<p>The project authorities shall strictly comply with the rules and regulations under the Manufacture, Storage and Import of Hazardous chemicals Rules, 1989 as amended. Authorization from the SPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.</p>	<p>The company is strictly adhering to the rules and regulations under manufacture, storage and import of Hazardous Chemicals rules. Permission for collections, treatment, storage and disposal of hazardous waste is obtained from Andhra Pradesh Pollution Control Board and the permission is valid up to 28-02-2028.</p> <p>CFE CFO Order copy's attached as annexure.</p>
iv)	<p>Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentration are anticipated in consultation with the State Pollution Control Board.</p>	<p>The industry shall comply with ambient air quality standards.</p> <p>Monitoring reports are attached as annexure.</p>
v)	<p>For control of process emissions, stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided. The scrubbed water shall be sent to ETP for further treatment.</p>	<p>For control as process emissions, caustic scrubbers shall be provided. The spent scrubber solution is sent to MEE system.</p>
vi)	<p>The company shall undertake following Waste Minimization measures:-</p> <ul style="list-style-type: none"> • Metering of quantities of active ingredients to minimize waste. • Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. • Maximizing recoveries. • Use of automated material transfer system to minimize spillage. • Use of "Closed Feed" system into batch reactors. 	<ul style="list-style-type: none"> • Complied • In Chlorpyrifos Plant, Acrylonitrile and Trichloro Acetyl Chloride are recovered and reused. In Fluroxyppy Plant, Ammonia and KF are recovered and reused. • Solvent recovery of 96% is achieved by using dry vacuum pump in place of steam jet ejectors. • To minimize spillage, all raw materials are handled using transfer pumps and Powder Transfer System. • The raw materials and intermediates are handled in closed systems using vacuum and transfer pumps.
vii)	<p>The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the SPCB shall be obtained for collections / treatment / storage / disposal of hazardous wastes.</p>	<p>Strictly adhering to the conditions stipulated in Authorization for handling and disposal of hazardous waste by Andhra Pradesh Pollution Control Board.</p>

viii)	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	There is no source of noise pollution in our factory. The DG sets are installed in a closed area. The noise levels in the plant area are maintained within stipulated conditions prescribed under EPA guide lines. Monitoring reports are attached as annexure.
ix)	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the environmental management and monitoring functions.	A qualified Environmental Engineer is appointed to look after environmental monitoring functions.
x)	The project authorities shall develop greenbelt in 33% of project area as per the guidelines of CPCB to mitigate the effect of fugitive emission.	The company has developed green belt all around the plant. Native plants like mango, chikku, jack fruit, neem, coconut, subabul etc have been planted with the support of District Forest Officer. Dr. Akira Miyawaki plantation was developed in the premises. Green belt Photographs are attached as annexure.
xii)	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 and may also be seen at Website of the Ministry at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two 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 Ministry's Regional office.	The company has advertised in Newspapers viz Deccan Chronicle and Andhra Bhoomi informing the public that the project has been accorded EC. Copies of advertisement were sent to your office. Newspaper advertisement copy's are attached as annexure.
xiii)	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	The industry will comply
Other Conditions:		
7	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted & Agreed
8	The Ministry reserves the right to stipulate additional conditions, if found necessary.	Noted & Agreed

	The company in a time bound manner will implement these conditions.	
9	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.	Noted & Agreed
10	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted & Agreed

Annexure - 3
Consent To Establishment Order

	<p align="center">ANDHRA PRADESH POLLUTION CONTROL BOARD Paryavaran Bhavan, APIIC Colony Road, Gurunanak Colony, Autonagar, Vijayawada- 520007. Website: www.pcb.ap.gov.in</p>	
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CONSENT TO ESTABLISH (CHANGE OF PRODUCT MIX) ORDER

Order No. 189 /APPCB/CTE/RO-NLR/HO/2011

Dt:20/08/2024

Sub: APPCB – CTE - M/s. **Bhagiradha Chemicals & Industries Ltd.**, Cheruvukommupalem (V), Ongole (M), Prakasam District – **Consent to Establish (Change of Product Mix)** of the Board under Sec.25 of Water (Prevention and Control of Pollution) Act, 1974 and under Sec.21 of Air (Prevention and Control of Pollution) Act, 1981- **Issued** - Reg.

- Ref:
1. EC order Dt: 21.10.2008 issued by MoEF&CC, GOI, New Delhi.
 2. Amendment to the EC Order Dt: 15.10.2020 issued by MoEF&CC, GOI, New Delhi.
 3. CTE order dt: 20.11.2020 issued by the Board.
 4. Renewal of CTO order dt: 11.07.2023 valid upto 02.01.2023.
 5. Industry's CTE (CPM) application received through A.P. OCMMS on 04.07.2024.
 6. Acknowledgement obtained from MoEF&CC in PARIVESH Portal dt: 12.07.2024 under No Increase in Pollution Load (NIPL)
 7. The JCEE, ZO: Vijayawada report dt: 24.07.2024.
 8. CTE Committee meeting held on 06.08.2024.
 9. Information furnished by the industry on 07.08.2024.

- M/s. Bhagiradha Chemicals & Industries Ltd., vide the reference 5th cited, submitted an application to the Board seeking Consent to Establish (CTE) for **Change of Product Mix** for Pesticide Technical & Formulations manufacturing unit to produce the products with installed capacities as mentioned below, with an additional investment of Rs. 600 Lakhs.

S.No.	Name of the Product	Starting Raw Material	Existing Qty (Kg/day)	After CPM Qty (Kg/day)
Combination-I	Chlorpyriphos or	Trichloroacetyl chloride	6000	4000
	Chlorpyriphos Methyl or	Trichloroacetyl chloride	5500	3500
	Azoxystrobin or	Orthochloro toluene	2250	1600
	Dinotefuron or	3-AMT	0	4000
	Pymetrozine or	3-cyanopyridine	0	3500
	4-amino-2,5-dimethoxy pyrimidine (4-ADMP) or	Chloro Methyl Acetate	0	1200
	Acequinocyl or	Beta-Naphthol	0	1300

	Thiamethoxam or	3-methyl-4-nitroiminotetrahydro-1,3,5-oxadiazine	0	4000
	Thiamethoxam or	Allyl chloride	0	1750
	Chlorantraniliprole or	2,3-Dichloropyridine	0	1500
	Acetamprid or	(E)-ethyl N-cyanoacetimidate	0	4000
	Indoxacarb or	Methyl(chlorocarbonyl)4-(triluromethoxy) phenyl Carbamate	0	4000
	Tebucanazole or	2-(2-(4-Chlorophenyl) ethyl)-2-(1,1-dimethylethyl)-oxirane	0	4000
	Pyrazosulfuron or	2-amino-4,6-dimethoxypyrimidine	0	4000
	Chlorantraniliprole	2-amino-5-chloro-N,3-dimethylbenzamide	0	4000
Combination -II	2,6-Dichloroaniline or	Aniline	1000	2000
	Lambda Cyhalothrin or	Cyhalothric acid	1000	1000
	Dinotefuron or	3-AMT	1000	2000
	Pyrazole or	Ethylcyanoacetate	1000	0
	Pymetrozine or	3-cyanopyridine	500	500
	Mesosulfuron or	Methanesulfonyl chloride	1000	2000
	CAS No 247236-09-5 or	Hydrazine hydrate	0	1500
	Quinalphos or	Chloroacetic acid	0	2000
	Tembotrione	1,3-Cyclohexanedione	0	2000
Combination -III	TFMA or	3,4-dichlorobenzo trifluoride	1200	0
	Azoxystrobin or	ortho chloro benzyl cyanide	1500	2000
	4-amino-2,5-dimethoxypyrimidine(4-ADMP) or	Chloro Methyl Acetate	900	0
	Acequinocyl or	Beta-Naphthol	1000	0
	Triclopyr Technical or	Trichloroacetyl chloride	4000	3500
	Diafenthiuron or	2,6-Diisopropyl aniline	1500	3000
	Imidacloprid or	2-chloro-5-chloromethyl pyridine	2000	2000
	Thiamethoxam or	3-methyl-4-nitroiminotetrahydro-1,3,5-oxadiazine	4000	0
	Thiamethoxam or	Allyl chloride	1750	0
	Clodinafop-Propargyl or	Chloral	1000	3500
	Cloquintocet-mexyl or	2-Heptanol	900	3000
	Fluroxypyr Technical or	Pentachloro pyridine	3500	3500
	Fipronil or	3,4-dichlorobenzo trifluoride	0	1500
	Trifloxystrobin or	2-(2-(chloromethyl) phenyl)acetonitrile	0	2000
Bifenthrin or	3-(chloromethyl)-2 methyl biphenyl	0	3500	

	Thifluzamide or	4,4,4-Trifluoroacetoacetate	0	3500
	Flubendamide or	(3-iodo-2-(1,1-dimethyl-2-methylsulfinylethylaminocarbonyl)-4-heptafluoroisopropyl-2-methylbenzanilide	0	3500
	Tolfenpyrad	4-chloro-3-ethyl-1-methyl-1H-pyrazole-5-carboxylic acid	0	3000
Combination IV	Fipronil or	Carbon disulfide	1000	1900
	Sulfosulfuron or	2-amino pyridine	500	1000
	Ethiprole or	3,4-dichlorobenzo trifluoride	800	1250
	Pinoxaden or	Hydrazine hydrate	400	750
	Bispyribac or	2,6-dihydroxybenzoic acid	1000	0
	4-amino-2,5-dimethoxypyrimidine (4-ADMP) or	ChloroMethyl Acetate	0	900
	Chlorpyriphos or	Trichloroacetyl chloride	0	3000
	Dinotefuron or	3-AMT	0	3200
	Pymetrozine or	3-cyanopyridine	0	2750
	Diafenthiuron or	2,6-Diisopropyl aniline	0	3000
	Difenconazole or	2,4-Dichloroaceto phenone	0	3200
	Novaluron or	2-(Trifluoromethoxy) ethoxyaniline	0	3000
	Pyriproxyfen or	4-Phenoxyphenol	0	3200
	Sulfantrazone or	Methanesulfonyl chloride	0	3200
	Diclosulam or	2,2-dithiobis(5-ethoxy-7-fluoro[1,2,4]triazolo [1,5-c]pyrimidine)	0	3000
Trifloxystrobin(N-1)	Methyl Acetophenone	0	3000	
Combination-V	R&D and Pilot plant Products	--	0	500

Group-B

S.No.	Name of the Product	Capacity
	Emulsifiable Formulations	
1	Chlorpyriphos	5.0 KLD
2	Chlorpyriphos-Methyl	5.0 KLD
3	Triclopyr	5.0 KLD
4	Fluroxypyr	5.0 KLD
5	Imidacloprid	5.0 KLD
6	ClodinafopPropargyl	5.0 KLD
7	Fipronil	5.0 KLD
	Wettable Powder	
1	Clodinafop – 15%	5.0 TPD
	Wettable Granules	
1	Imidacloprid – 70%	5.0 TPD

2	Fipronil -80%	5.0 TPD
3	Thiamethoxam – 25%	5.0 TPD
	Suspension Concentrates	
1	Fipronil – 5%	5.0 TPD
2	Buprofezin – 25%	5.0 TPD

The industry proposed to manufacture 39 no. of Pesticide Technical Products and manufacture one product from each combination of Group-A products and one product from Group – B at any point of time. The total production will not exceed 3250 TPA as permitted in the EC order, dt. 21.10.2008.

By Products:

S.no.	By-Product	Quantity Kg/Day	Disposal	Source
1	R-Copper chloride	557	Sale	Chlorpyriphos (or)
2	Methyl Acetate	4435	Sale	Azoxystrobin
3	Acetic Acid	2959	Sale	Azoxystrobin
4	30 % Aqueous Hcl	17927	Reuse/sale	Chlorantraniliprole, CAS No. 247236-09-05, Fipronil
5	R-POCl ₃	4059	Sale	Azoxystrobin
6	20% Aqu's Ammonia	3272	Reuse/sale	Azoxystrobin, CAS No;247236-09-5, Fluroxypyr, Diafenthiuron
7	R-Sodium sulfite	4285	Sale	Azoxystrobin, Tembotrione, Clodinofof-Popargyl, Talfenpyrd
8	Spent Acid	22513	Sale	4-ADMP, 2,6 DCA, Fipronil
9	30% Aqueous HBr	7697	Reuse/sale	Chlorantraniliprole, Diafenthiuron, Difenconazole
10	36 % Aqu's Hcl	2062	Reuse/sale	2,6 DCA
11	R-Potassium sulfate	935	Sale	Diafenthiuron
12	R-Potassium Chloride	3500	Sale	Fipronil , Diafenthiuron, Difenconazole
13	R-PTSA Salt	4431	Sale	Fipronil
14	R-DMA 40%	2048	Sale	Fipronil

2. As per the application, the above activity is to be located in the existing premises at Cheruvukommupalem (V), Ongole (M), Prakasam District, in an area of 35.76 acres.

3. The industry was inspected by the SEE, ZO: Vijayawada and EE, RO: Ongole on 16.07.2024 and observed that the site is surrounded by

- North** : Yerravagu (Irrigation channel)
South : Eucalyptus plantation
East : Eucalyptus plantation
West : Yerajerla to Vengamukkalapalem Road

4. The Board, after careful scrutiny of the application and verification report of the Zonal Officer and recommendations of the CTE Committee, hereby issues **CONSENT TO ESTABLISH FOR CHANGE OF PRODUCT MIX** to the project under Section 25 / 26 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. **This order is issued to manufacture the products as mentioned at para (1) only.**
5. This Consent Order now issued is subject to the conditions mentioned in the Annexure.
6. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.
7. This order is valid for a period of 7 years from the date of issue.

Encl: Annexure.

**B SREEDHAR IAS,
MS(BS), O/o MEMBER SECRETARY-
APPCB**

To
M/s. Bhagiradha Chemicals & Industries Ltd.,
Sy Nos.191, 213 to 217 & 220, Cheruvukommupalem (V),
Ongole (M), Prakasam District.
Email: Phani.b@bhagiradha.com

Copy to: 1. The JCEE, Z.O: Vijayawada for information and necessary action.
2. The E.E., R.O: Ongole for information and necessary action.

Annexure

1. The proponent shall obtain Consent to Establishment (CTE) from APPCB, as required Under Sec.25/26 of the Water (P&C of P) Act, 1974 and under sec. 21/22 of the Air (P&C of P) Act, 1981, before commencement of the trial runs.
2. The applicant shall provide separate energy meters for Effluent Treatment Plant (ETP) and Air Pollution Control equipments to record energy consumed. An alternative electric power source sufficient to operate all pollution control systems shall be provided.
3. The industry shall construct separate storm water drains. No effluents shall be discharged in to the storm water drains.

Water:

4. The source of water is Borewell and the maximum permitted water consumption is as following:

S. No	Purpose	Consumption as per CFE order dt. 20.10.2020 & CFO order dt: 03.01.2023	As per EC Amendment order dt: 15.10.2020	After change of product mix (In KLD)		
				Fresh	Recycled	Total
1.	Process & Washings	69.32 KLD (55.2 KLD Fresh+ 14.12 KLD Recycled)	Fresh water - 306.2 KLD Recycled: Utility Make-up - 125 KLD Green belt -21 KLD	55.2	14.12	69.32
2.	Boiler Feed	126 KLD (126 KLD Fresh+ 0 KLD Recycled)		126	--	126
3.	Industrial Cooling (Makeup)	184.88 KLD (74 KLD Fresh+ 110.88 KLD Recycled)		74	110.88	184.88
4.	Domestic	21 KLD (21 KLD Fresh+ 0 KLD Recycled)		21	-	21
5.	Gardening	51 KLD (30 KLD Fresh+ 21 KLD Recycled)		30	21	51
	Total	452.2 KLD (306.2 KLD Fresh+ 146 KLD Recycled)	452.2 KLD	306.2	146	452.2

*No changes in proposed water consumption for the proposed change of product mix.

Separate meters with necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned above.

5. The maximum waste water generation shall not exceed the following:

S. No	Source	Quantity in KLD	
		Existing as per CFO order Dt: 02.01.2023	After change of product mix
1	Process effluents (HTDS & Low TDS Effluents)	107.92	107.92
2	Non-process (Boiler blow down & Cooling tower blow down)	44	44.0
3	Domestic	21.0	21.0
	Total	172.92	172.92

Treatment & Disposal:

Outlet No	source	Treatment	Point of Disposal
1	Process effluents (HTDS & Low TDS Effluents) - 107.92 KLD	ZLD System consists of Stripper – 2 X 100 KLD, MEE-I (3 KL/hr), MEE-II (5 KL/ Hr), AFTD – 5 X 1 KL/Hr,	<ul style="list-style-type: none"> • Shall be stripped off for organics recovery and routed through M/s. Andhra Pradesh Environment Corporation Limited (APEMCL), to dispose cement plants for co-processing/ TSDF for incineration. • Stripper concentrate to MEE. • MEE concentrate to AFTD • MEE & AFTD Condensate to Biological treatment plant followed by RO. • AFTD Salts to TSDF landfill.
2	Non-process Effluents (Boiler blow down & Cooling tower blow down)- 44 KLD	Primary Clarifier, Electrooxidation Treatment Plant -150 KLD (7.5 m3/hr), RO system-200 KLD. The Electrooxidation Treatment Plant consists of Physical Screening, e-PF Reactor (electro pulse flocculator), Clarifiers, Electro Zetap Reactor (e-ZETA), Electro Catalytic Oxidation Reactor (ECOT), Aeration Tanks- 2 Nos, Clarifiers-2Nos, Pressure Sand Filter, Micron Filtration.	<ul style="list-style-type: none"> • Biological treatment plant followed by RO. • The RO permeate shall be utilized for cooling tower makeup and RO rejects shall be sent to MEE.

3	Domestic -21KLD	Sewage Treatment Plant- 50 KLD, RO system-100 KLD	<ul style="list-style-type: none"> • Sewage treatment plant(50 KLD) followed by RO (100 KLD). • The RO permeate to cooling tower makeup and RO rejects to MEE.
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6. **All the units of the effluent treatment system shall be above ground level to prevent ground water pollution.**
7. The industry shall provide digital flow meters with totalizers at the inlet and outlet of treatment systems and maintain records. The industry shall also provide magnetic flow meters with totalizers at inlet of Stripper, MEE and ATFD. Also for RO permeate & RO rejects and the same shall be connecting to APPCB website.
8. The industry shall install online real time monitoring system outlet of ETP units and web camera facilities and connect to APPCB / CPCB websites as per CPCB directions.
9. Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas. All pipe valves, sewers, drains shall be leak proof.
10. Under any circumstances, the industry shall not be discharge any effluent outside the premises or into any water bodies or aquifers.
11. **The industry shall provide tank in tank system for effluent collection at production blocks. Free board shall be maintained in the tanks to prevent spillages.**
12. **The LTDS and HTDS effluents shall be stored in above ground level collection tanks separately and provide hood over them and the vent shall be connected to the scrubber within two months as committed.**
13. The industry shall construct rain water runoff tank for collection and storage of first flush storm water. The industry shall maintain dry condition outside drains in un rainy season.

Air:

14. The Air pollution Control equipment shall be installed along with the commissioning of the activity and shall comply with the following for controlling air pollution:

S. No.	Details of Stack	Existing Stack 1	Existing Stack 2	Existing Stack 3
i.	Attached to:	FBC Boiler	FBC Boiler	D.G Sets
ii.	Capacity	12.0 TPH & (another 12.0 TPH Furnace oil Boiler as standby)	8.0 TPH (another 5.0 TPH coal fired boiler as standby)	3X500 KVA, 1 X 250 KVA, 1X 750 KVA

iii.	Name of the Fuel	Coal	Coal	Diesel
iv.	Stack height above ground(m.)	30 m.	30 m.	4x4.5m & 1X2.5m (above roof)
v.	Air Pollution Control Equipment	Mechanical Dust Collector followed by Bag Filters	Mechanical Dust Collector followed by Bag Filters	Silencers

15. A sampling port with removable dummy of not less than 15 cm diameter shall be provided in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15 AMP 250 V plug point shall be provided on the platform.
16. The industry shall properly operate and maintain the monitoring system to all the stacks / vents in the plant. Regular monitoring shall be carried out and report shall be submitted to the Regional officer.
17. The industry shall properly operate and maintain multi-stage scrubbers to the process vents to control the process emissions. The industry shall ensure that online pH measuring facility with auto recording system is connected to the scrubbers and the same shall be connected to APPCB Website.
18. The industry shall properly operate and maintain VOC monitoring system with auto recording facility and connect to APPCB website.
19. The industry shall implement adequate measures to control all fugitive emissions from the plant.
20. The proponent shall not use or generate odour causing substances and cause odour nuisance in the surroundings.
21. The industry shall send the used/ spent solvents to the recyclers.
22. The proponent shall ensure compliance of the National Ambient Air quality standards notified by MOE&F, GOI vide notification No. GSR 826(E), dated. 16.11.2009 during construction and regular operational phase of the project.
23. The industry shall take appropriate measures to control odour nuisance in the surroundings and the measures taken shall be reported to Concerned Regional office of PCB before applying for CFO.
24. The generator shall be installed in a closed area with a silencer and suitable noise absorption systems. The ambient noise level shall not exceed 75 dB (A) during day time and 70 dB (A) during night time.

Solid / Hazardous Waste:

25. The industry shall comply with the following for disposal of Solid waste:

S. No.	Description	Stream	Quantity After CPM	Mode of disposal
1.	Process Organic Residue	29.1 of Schedule – I	1516 Kg/day	Proposed to routed through M/s. APEMC to dispose to authorized Cement industries for co-processing (or) TSDF for incineration
2.	Inorganic solid waste from process Effluent, ATFD	28.1 of Schedule – I	14364 Kg/day	Proposed to routed through M/s. APEMC so as to send to TSDF for secured land filling.
3.	ETP Sludge	35.3 of Schedule – I	25 Kg/day	Proposed to routed through M/s. APEMC to dispose to authorized Cement industries for co-processing (or) TSDF for incineration
4.	Waste Oil	5.1 of Schedule – I	1.4 L/day	Proposed to uses as lubricant within the premises (or) Shall be routed through M/s. APEMC so as to send to authorized Re-processors / Recyclers / to the Cement industries for co-processing.
5.	Date expired, discarded and off specification raw material/product	29.3 of Schedule - I	1 TPM	Shall be sent to the cement industries for co-processing or TSDF routed through APEMCL for incineration
6.	Used filters contaminated with oil	5.2 of Schedule - I	12 No./annum	Sent to authorized re-processor/recyclers/cement industries routed through APEMCL
7.	Used membranes from water treatment plant	35.2 of Schedule - I	2 TPM	Shall be sent to TSDF for land filling or to the cement industries routed through APEMCL for co-processing
8.	General waste (Insulation puff, insulation wool, used PPE,Nitrile rubber, paper waste, packing material waste)	33.2 of Schedule - I	5 TPM	Cement industries for co-processing/TSDF/Recyclers routed through APEMCL.
9.	Used Lead Acid Batteries	17 of Schedule -IV	4 Nos/Annunum	Shall be routed through APEMCL, so as to dispose the same to supplier on buyback basis.

Solid waste:

S. No	Description of the Waste	After change of product mix	Disposal Option
1.	Boiler ash	13.5 TPD	Sent to brick manufacturers

26. The proponent shall place the chemical drums and / or any drums in a shed provided with concrete platform only. The Platform shall be provided with sufficient dyke wall and effluent collection system. The industry shall provide containers detoxification facility. Container & Container liners shall be detoxified at the specified covered platform with dyke walls and the wash wastewater shall be routed to low TDS collection tank.
27. Proper handling, storage, utilization and disposal of all the solid waste should be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid / hazardous waste shall be submitted to the Regional office.
28. Industry shall register with Andhra Pradesh Environment Management Corporation Ltd (APEMCL) immediately on the receipt of Consent to Establish (CTE) order for disposal of hazardous and other wastes.
29. The following rules and regulations notified by the MoEF& CC, GoI shall be implemented.
 - a. Regulation of Persistent Organic Pollutants Rules, 2018.
 - b. Hazardous waste and other wastes (Management and Transboundary Movement) Rules, 2016 and amendments thereof.
 - c. Plastic Waste Management Rules, 2016.
 - d. Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
 - e. Fly Ash Notification, 2016.
 - f. Batteries (Management & Handling) Rules, 2010.
 - g. E-Waste (Management) Rules, 2016.
 - h. Construction and Demolition waste Management Rules, 2016.
 - i. Solid Waste Management Rules, 2016.
 - j. The Public Liability Insurance Act, 1991 and its amendments thereof.

Other Conditions:

30. The industry shall comply with following conditions:
 1. The industry shall provide flow meters section wise at Stripper outlet, MEE outlet, ETP outlet (RO inlet), RO rejects, cooling tower inlet, and boiler blow downs.
 2. The industry shall install online stack monitoring system to 8 TPH boiler, as per CPCB directions.
 3. The industry shall assess the odour concentration (in OU/m³) and VOCs and their impact in and around their premises, due to manufacturing of pesticide technical products.
 4. The industry shall follow the CPCB guidelines regarding the manufacture of by-products (i.e., sodium cyanide etc.).
 5. There is a court cases i.e., WP.No.6873 of 2023 & W.P (PIL). NO. 90 of 2022 were pending in the Hon'ble High Court, against the industry and the industry has to abide by the outcome of the court case.

31. The industry shall comply with the conditions stipulated in the EC order dt: 1.10.2008 and amendment order dt. 5.10.2020 issued by MoEF&CC, GoI, New Delhi.
32. **The industry shall comply with all the commitments submitted to the MoEF in PARIVESH Portal under No Increase in Pollution Load (NIPL).**
33. **The industry shall submit the by-products returns (generation and disposal) every month to the Regional Office. If the by-products are not sold, they shall be treated along with the effluent and disposed of through APEMCL.**
34. The industry shall submit a copy of the NOC issued by the Andhra Pradesh State Disaster Response and Fire Service Dept., (APSDRFSD) at concerned Regional Office, APPCB while applying for CTO.
35. "The industry shall comply with the industry specific standards with respect to emissions tank farm vents stipulated by the MoEF & CC, GoI, New Delhi vide Notification GSR541 (E), dt.06.08.2021."

S. No.	Details of process emissions	Emission Control system	Emission Standard
1.	HCl	Multi stage scrubbers in series.	35 mg/Nm ³
2.	NH ₃		30 mg/Nm ³
3.	Chlorine		15 mg/Nm ³
4.	Benzene		5 mg/Nm ³
5.	Toluene		100 mg/Nm ³
6.	Acetonitrile		1000 mg/Nm ³
7.	Dichloromethane		200 mg/Nm ³
8.	Xylene		100 mg/Nm ³
9.	Acetone		2000 mg/Nm ³

36. The industry shall prepare risk assessment report covering worst scenario clearly describing impact within the industry premises and outside the industry premises and emergency response system.
37. The proponent shall display online data outside the main factory gate on quantity and nature of hazardous chemicals being used in the plant, water & air emissions and solid waste generated within the factory premises, as per Hon'ble Supreme Court order.
38. The industry shall prepare a safety report and carry out an independent safety audit report of the respective industrial activities including chemical storages / isolated storages by an expert not associated with such industrial activity as required under Rule 10 of MSIHC Rules, 1989 and get it approved by the Factories Dept., and submit the compliance along with copy of the safety report, safety audit report and safety certificate at concerned Regional Office, APPCB.

39. The industry shall obtain policy under PLI Act before applying for CTO of the Board.
40. The industry shall obtain PESO License before applying for CTOs of the Board, if applicable.
41. Greenbelt of 33% (3359.11 Sq.Mtrs) of the total project area (10054.25 Sq.Mtrs.) shall be developed within plant premises with at least (5-10m) wide greenbelt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.
42. The proponent shall achieve 100% disposal of fly ash and bottom ash as per Fly Ash Notification issued by MOE&F, GOI vide S.O.2804 (E), dated 3.11.2009.
43. The industry shall display online data outside the main factory gate on quantity and nature of hazardous chemicals being used in the plant, water & air emissions and solid waste generated within the factory premises, as per Hon'ble Supreme Court order.
44. The industry shall prepare a safety report and carry out an independent safety audit report of the respective industrial activities including chemical storages / isolated storages by an expert not associated with such industrial activity as required under Rule 10 of MSIHC Rules, 1989 and get it approved by the Factories Dept., and submit the compliance along with copy of the safety report, safety audit report and safety certificate at concerned Regional Office, APPCB.
45. The industry shall submit a copy of the NOC issued by the Andhra Pradesh State Disaster Response and Fire Service Dept., (APSDRFSD) at concerned Regional Office, APPCB.
46. The industry shall submit risk assessment report covering worst scenario clearly describing impact within the industry premises and outside the industry premises and emergency response system.
47. The industry shall obtain PESO clearance & policy under PLI Act before applying for CTO of the Board.
48. The industry shall carryout calibration of safety equipments and leak detection systems at regular intervals and shall certify the same with the Factories Department. That certified copy shall be submitted to the APPCB, Regional Office. The industry shall install fluorescent Wind Vane at the highest point in the industry premises.
49. The industry shall submit compliance to the conditions stipulated in the CTE orders to the concerned Regional Officer of APPCB every six months and shall upload the same at APPCB website viz., https://pcb.ap.gov.in/UI/Submission_Compliance_of_CTE_CFO_Direction.asp

50. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order attracts action under the provisions of relevant pollution control Acts.
51. The Board reserves its right to modify above conditions or stipulate any additional conditions including revocation of this order in the interest of environment protection.
52. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power Under Sec. 27(2) of Water (Prevention and Control of Pollution) Act, 1974 and Under sSec.21 (4) of Air (Prevention and Control of Pollution) Act, 1981 to revoke the order, to review any or all the conditions imposed herein and to make such modifications as deemed fit and stipulate any additional conditions.
53. **The proponent shall comply with the Technical suggestions at Chapter No. 7.3 & 7.4 for Hazardous Chemical handling industries by High Power Committee (HPC) of Govt. of Andhra Pradesh. The HPC report is available at www.ap.gov.in.**
54. Any persons aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules,1982, to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of Water (Prevention and Control of Pollution)Act,1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.

B SREEDHAR IAS, MS(BS), O/o MEMBER SECRETARY-APPCB

To
M/s. Bhagiradha Chemicals & Industries Ltd.,
Sy Nos.191, 213 to 217 & 220, Cheruvukommupalem (V),
Ongole (M), Prakasam District.
Email: Phani.b@bhagiradha.com

Annexure - 4
Consent To Operate & Hazardous Waste
Authorization Order



ANDHRA PRADESH POLLUTION CONTROL BOARD
Dr. YSR. Paryavaran Bhavan, APIIC Colony Road,
Gurunanak Colony, Autonagar, Vijayawada- 520007
 Website: <https://pcb.ap.gov.in/>



CONSENT TO OPERATE & HAZARDOUS WASTE AUTHORIZATION ORDER

Consent Order No. 333938/APPCB/VJA/OGL/CTO&HWA/HO/2024 16/12/2024

CONSENT is hereby granted to Operate under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21/22 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and Authorisation under Rule 6 of the Hazardous & Other Wastes (Management and Transboundary, Movement) Rules, 2016 and the rules and orders made there under (hereinafter referred to as 'the Acts', 'the Rules') to:

M/s. Bhagiradha Chemicals & Industries Ltd.,
(Change of Product-mix)
Sy Nos. 191, 213 to 217 & 220,
Cheruvukommupalem (V), Ongole (M),
Prakasam District.
E-mail: info@bhagirad.com, vnarayana.m@bhagirad.com

(Hereinafter referred to as 'the Applicant') authorizing to operate the industrial plant to discharge the effluents from the outlets and the quantity of emissions per hour from the chimneys as detailed below:

i) Outlets for discharge of effluents:

Outlet No	Outlet Description	Max Daily Discharge (KLD)	Point of Disposal
1	Process Effluents (HTDS & Low TDS effluents)	107.92	<ul style="list-style-type: none"> Shall be stripped off for organics recovery and routed through M/s. Andhra Pradesh Environment Corporation Limited (APEMCL), to dispose to cement plants for co-processing / TSDF for incineration. Stripper concentrate to MEE MEE Condensate to Biological treatment plant followed by RO. MEE concentrate to ATFD. MEE & ATFD condensate to Biological Treatment Plant followed by RO. ATFD salts to TSDF landfill <p>The industry shall maintain ZLD system for treatment and disposal of process effluent</p>
2	Non-process Effluents (Boiler blow down & Cooling tower)	44.0	<ul style="list-style-type: none"> Biological treatment plant followed by RO The RO permeate shall be utilized for cooling tower makeup and RO rejects shall be sent to MEE.

	blow down)		The industry shall maintain ZLD system for treatment and disposal of non process effluent
3	Domestic	21.0	<ul style="list-style-type: none"> Sewage treatment plant (50 KLD) followed by RO (100 KLD). The RO permeate to cooling tower makeup and RO rejects to MEE.
	Total:	172.92	
		KLD	

ii) Emissions from chimneys:

Chimney No.	Description of Chimney
1	Stack attached to 1 x 12 TPH FBC Boiler (Another 12 TPH Furnace oil fired boiler as standby)
2	Stack attached to 1 x 8 TPH FBC Boiler (Another 5 TPH Coal fired boiler as standby)
3	Stack attached to 3 x 500 KVA, 1 x 250 KVA & 1 x 750 KVA D.G. Sets

iii) HAZARDOUS WASTE AUTHORISATION (FORM – II) [See Rule 6 (2)]:

M/s. Bhagiradha Chemicals & Industries Ltd., Sy Nos. 191, 213 to 217 & 220, Cheruvukommupalem (V), Ongole (M), Prakasam District is hereby granted an authorization to operate a facility for collection, reception, storage, treatment, transport and disposal of Hazardous Wastes namely:

- HAZARDOUS WASTES WITH DISPOSAL OPTION:**

S. No	Name of the Hazardous Waste	Stream	Quantity	Disposal Option
1.	Process organic residue	29.1 of Schedule-I	1516 Kg/day	Shall be routed through M/s. APEMC, to send to authorized cement industries for co-processing (or) TSDF for incineration.
2.	Inorganic Solid waste from process effluent, ATFD	28.1 of Schedule-I	14364 Kg/day	Shall be routed through M/s. APEMC, to send to TSDF for secured land filling.
3.	ETP Sludge	35.3 of Schedule-I	25 Kg/Day	Shall be routed through M/s. APEMC, to send to authorized cement industries for co-processing (or) TSDF for incineration.
4	Date expired, discarded and off specification raw material/product	29.3 of Schedule-I	1 TPM	Shall be routed through M/s. APEMC, to send to the cement industries for co-processing or TSDF.
5	Used Membranes from Water Treatment Plants	35.2 of Schedule-I	2 TPM	Shall be routed through M/s. APEMC, to send to TSDF for landfilling or to the cement industries for co-processing

6	General waste (Insulation puff, insulation wool, used PPE, Nitrile rubber, paper waste, packing material waste, PFFRP)	33.2 of Schedule-I	5 TPM	Shall be routed through M/s. APEMC, to send to cement industries for co-processing / TSDF / Recyclers.
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• **HAZARDOUS WASTES WITH RECYCLABLE OPTION:**

S. No	Name of the Hazardous Waste	Stream	Quantity	Disposal Option
1	Waste oil & Grease	5.1 of Schedule-I	1.4 LPD	Proposed to uses as lubricant within the premises (or) Shall be routed through APEMC, to send to authorized re-processors / recyclers / to the cement industries for co-processing
2	Used filters contaminated with Oil	5.2 of Schedule-I	12 Nos / annum	Shall be routed through APEMC, to authoised re-processors / recyclers / cement industries.
3	Used Lead acid batteries	17 of Schedule - IV	4 Nos / annum	Shall be routed through APEMC, to dispose the same to supplier on buyback basis.

The CTO & HWA Order No: APPCB/VJA/NLR/10491/CFO/HO, dated 02.01.2023 stands cancelled from the date of issue of this order.

This consent order is valid for manufacture of the following products with quantities indicated below only:

Group-A

S. No.	Name of the Product	Quantity Kg/day (After Change of product mix)
Combination-I	Chlorpyriphos or	4000
	Chlorpyriphos Methyl or	3500
	Azoxystrobin or	1600
	Dinotefuron or	4000
	Pymetrozine or	3500
	4-amino-2,5 dimethoxypyrimidine (4-ADMP) or	1200
	Acequinocyl or	1300
	Thiamethoxam or	4000
	Thiamethoxam or	1750
	Chlorantraniliprole or	1500
	Acetamidrid or	4000
	Indoxacarb or	4000
	Tebucanazole or	4000
Pyrazosulfuron or	4000	

	Chlorantraniliprole	4000
Combination -II	2,6-Dichloroaniline or	2000
	Lambda Cyhalothrin or	1000
	Dinotefuron or	2000
	Pyrazole or	0
	Pymetrozine or	500
	Mesosulfuron or	2000
	CAS No 247236-09-5 or	1500
	Quinalphos or	2000
	Tembotrione	2000
Combination -III	TFMA or	0
	Azoxystrobin or	2000
	4-amino-2,5 dimethoxypyrimidine (4-ADMP) or	0
	Acequinocyl or	0
	Triclopyr Technical or	3500
	Diafenthiuron or	3000
	Imidacloprid or	2000
	Thiamethoxam or	0
	Thiamethoxam or	0
	Clodinafop-Propargyl or	3500
	Cloquintocet-mexyl or	3000
	Fluroxypyr Technical or	3500
	Fipronil or	1500
	Trifloxystrobin or	2000
	Bifenthrin or	3500
	Thifluzamide or	3500
	Flubendamide or	3500
Tolfenpyrad	3000	
Combination IV	Fipronil or	1900
	Sulfosulfuron or	1000
	Ethiprole or	1250
	Pinoxaden or	750
	Bispyribac or	0
	4-amino-2,5-dimethoxypyrimidine (4-ADMP) or	900
	Chlorpyrifos or	3000
	Dinotefuron or	3200
	Pymetrozine or	2750
	Diafenthiuron or	3000
	Difenconazole or	3200
	Novaluron or	3000
	Pyriproxyfen or	3200

	Sulfantrazone or	3200
	Diclosulam or	3000
	Trifloxystrobin(N-1)	3000
Combination-V	R&D and Pilot plant Products	500

Group-B

S. No	Name of the Product	Quantity
	Emulsifiable Formulations	
1	Chlorpyriphos	5.0 KLD
2	Chlorpyriphos-Methyl	5.0 KLD
3	Triclopyr	5.0 KLD
4	Fluroxypyr	5.0 KLD
5	Imidacloprid	5.0 KLD
6	ClodinafopPropargyl	5.0 KLD
7	Fipronil	5.0 KLD
	Wettable Powder	
1	Clodinafop – 15%	5.0 TPD
	Wettable Granules	
1	Imidacloprid – 70%	5.0 TPD
2	Fipronil -80%	5.0 TPD
3	Thiamethoxam – 25%	5.0 TPD
	Suspension Concentrates	
1	Fipronil – 5%	5.0 TPD
2	Buprofezin – 25%	5.0 TPD

The industry shall manufacture 39 no. of Pesticide Technical Products and manufacture one product from each combination of Group-A products and one product from Group – B at any point of time. The total of pesticide production shall not exceed 3250 TPA as permitted in the EC order, dt. 21.10.2008

By Products:

S.no.	By-Product	Quantity Kg/Day		Source of the By - product
1	R-Copper chloride	557	Sale	Chlorpyriphos (or)
2	Methyl Acetate	4435	Sale	Azoxystrobin
3	Acetic Acid	2959	Sale	Azoxystrobin
4	30 % Aqueous Hcl	17927	Reuse/sale	Chlorantraniliprole, CAS No. 247236-09-05, Fipronil
5	R-POCl ₃	4059	Sale	Azoxystrobin
6	20% Aqu's Ammonia	3272	Reuse/sale	Azoxystrobin, CAS No;247236-09-5, Fluroxypyr, Diafenthiuron
7	R-Sodium sulfite	4285	Sale	Azoxystrobin, Tembotrione, Clodinafop-Popargyl, Talfenpyrd
8	Spent Acid	22513	Sale	4-ADMP, 2,6 DCA, Fipronil

9	30% Aqueous HBr	7697	Reuse/sale	Chlorantraniliprole, Diafenthiuron, Difenconazole
10	36 % Aqu's Hcl	2062	Reuse/sale	2,6 DCA
11	R-Potassium sulfate	935	Sale	Diafenthiuron
12	R-Potassium Chloride	3500	Sale	Fipronil, Diafenthiuron, Difenconazole
13	R-PTSA Salt	4431	Sale	Fipronil
14	R-DMA 40%	2048	Sale	Fipronil

The industry shall submit disposal (sale) details of the above by-products every month to the concerned Regional Office & Zonal Office. In case the by-products cannot be sold in the market due to any reasons, the byproducts shall be treated as waste and disposed as per the norms.

This order is subject to the provisions of 'the Acts' and the Rules' and orders made there under and further subject to the terms and conditions incorporated in the schedule A, B & C enclosed to this order. **This order is issued subject to final orders of Hon'ble High Court in WP No: 6873 of 2023.**

This combined order of Consent & Hazardous Waste Authorization shall be valid for a period ending with the **28th day of February, 2028.**

S SRI SARAVANAN, MS(SS), O/o MEMBER SECRETARY-APPCB

To

**M/s. Bhagiradha Chemicals & Industries Ltd.,
Sy Nos. 191, 213 to 217 & 220,
Cheruvukommupalem (V), Ongole (M),
Prakasam District.**

Copy to:

1. The JCEE, Zonal Office, **Vijayawada** for information and necessary action.
2. The EE, Regional Office, **Ongole** for information and necessary action.

SCHEDULE – A

1. Any up-set condition in any industrial plant / activity of the industry, which result in, increased effluent / emission discharge and/ or violation of standards stipulated in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge / emission below the limits.
2. The industry should carryout analysis of waste water discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit to the Board.
3. All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 should be followed as applicable.
4. The industry should put up two sign boards (6x4 ft. each) at publicly visible places at

the main gate indicating the products, effluent discharge standards, air emission standards, hazardous waste quantities and validity of CFO and exhibit the CFO order at a prominent place in the factory premises.

5. Notwithstanding anything contained in this consent order, the Board hereby reserves the right and powers to review / revoke any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.
6. The industry shall ensure that there shall not be any change in the process technology, source & composition of raw materials and scope of working without prior approval from the Board.
7. The applicant shall submit Environment statement in Form V before 30th September every year as per Rule No.14 of E(P) Rules, 1986 & amendments thereof.
8. The applicant should make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed compliance of CFO conditions for obtaining Consent & HW Authorization of the Board.
9. The industry should immediately submit the revised application for consent to this Board in the event of any change in the raw material used, processes employed, quantity of trade effluents & quantity of emissions. Any change in the management shall be informed to the Board. The person authorized should not let out the premises / lend / sell / transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.
10. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to Appellate authority constituted under Section 28 of the Water(Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air(Prevention and Control of Pollution) Act, 1981.
11. The industry shall be liable to pay Environmental Compensation / Other Environmental Taxes, if any environmental damage caused to the surroundings, as fixed by the Collector & District Magistrate or any other competent authority as per the Rules in vogue.
12. The industry may explore the possibility of tapping the solar energy for their energy requirements.
13. The industry should educate the workers and nearby public of possible accidents and remedial measures.

SCHEDULE-B

The case was placed in the Consent Management (CTO) committee meeting held on 11.11.2024. The industry shall comply with the following conditions:

WATER POLLUTION:

1. The industry shall treat the domestic effluents and shall comply the following effluent standards as per the MoEF&CC notifications of as per G.S.R. 1265 (E) dated 13.10.2017:

Outlet No	Parameter	Concentration
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3	pH	6.50 – 8.50
	Suspended Solids	100.0mg/l
	Oil & Grease	10.0mg/l
	Biochemical Oxygen Demand(BOD)	30.0mg/l
	Fecal coliform (FC) (Most Probable Number per 100 milliliter,MPN/100ml)	< 1000

2. The source of water is Bore wells. The following is the permitted water consumption:

S. No	Purpose	Quantity (in KLD)		
		Fresh	Recycled	Total
1.	Process & Washings	55.2	14.12	69.32
2.	Boiler Feed	126	--	126
3.	Industrial Cooling (Makeup)	74	110.88	184.88
4.	Domestic	21	-	21
5.	Gardening	30	21	51
	Total	306.2	146	452.2

Separate meters with necessary pipe-line shall be maintained for assessing the quantity of water used for each of the purposes mentioned above.

- The industry shall maintain digital flow meters for the stripper, MEE, ATFD, Biological ETP and RO plant to verify the actual effluent treated and the same be connected to APPCB website.
- The industry shall maintain Electro Magnetic flow meters with totalisers for water and effluent quantity measurements for different streams of effluents and different categories of water usage stipulated in this order.
- The industry shall maintain ZLD system for treatment and disposal of process & non process effluent.
- All the units of the ZLD system area shall be maintained impervious to prevent ground water Pollution. The units of ZLD system shall be maintained above the ground level. Effluents shall not be discharged on land or into any water bodies or aquifers under any circumstances. The quantity of effluent generation details shall be furnished to concerned RO from time to time.
- The industry shall provide the standby MEE for treating the trade effluents. The industry shall stop their production activity, if any unforeseen breakdown in ZLD occurs. No trade / treated effluents shall be stored openly within industry premises.
- The industry shall maintain containers detoxification facility. Container & Container liners shall be detoxified at the specified covered platform with dyke walls and the wash wastewater shall be routed to low TDS collection tank.
- Storm / rain water shall not be allowed to mix with the effluent, treated sewage, scrubber water or floor washings. Storm water within the battery limits of the industry shall be channelized through separate drains.
- The industry shall furnish study report of ground water quality trends and consolidated records in the surroundings villages carried out by NABL accredited third party agency and submit reports to concerned RO and ZO.
- The industry shall establish an infrastructure for regular monitoring of ground water quality at upstream and downstream of the unit, ETP area, greenbelt area and surrounding villages for every three months.

AIR POLLUTION:

- The industry shall comply with the industry specific standards with respect to

emissions tank farm vents stipulated by the MoEF&CC, GoI, New Delhi vide Notification GSR 541(E), dated 06.08.2021.

Source	Parameter	Emission Standards in mg/Nm ³
1 & 2	Particulate Matter	115 mg/Nm ³
Tank farm vents	HCl	35
	NH ₃	30
	Chlorine	15
	Benzene	5
	Toluene	100
	Acetonitrile	1000
	Dichloromethane	200
	Xylene	100
	Acetone	2000

13.The process & fugitive emissions shall not contain constituents in excess of the prescribed limits mentioned below for the pesticide technical & formulation manufacturing industry, as per the MoEF&CC notifications of G.S.R. 446 (E), Dt.13.06.2011:

Source	Parameter	Emission Standards
Pesticide industry's Scrubber vents & Process vents	HCl	20 mg/Nm ³
	Cl ₂	5 mg/Nm ³
	H ₂ S	5 mg/Nm ³
	P ₂ O ₅ as H ₃ PO ₄	10 mg/Nm ³
	NH ₃	30 mg/Nm ³
	Pesticide compounds in the form of Particulate Matter	20 mg/Nm ³
	CH ₃ Cl	20 mg/Nm ³
	HBr	5 mg/Nm ³

14.The industry shall carryout scrubber vents monitoring by reputed 3rd party agency and submit the reports to concerned RO & ZO.

15.The industry shall comply with ambient air quality standards of PM₁₀ (Particulate Matter size less than 10mm) - 100 mg/ m³; PM_{2.5} (Particulate Matter size less than 2.5 mm) - 60 mg/ m³; SO₂ - 80 mg/ m³; NO_x - 80 mg/m³, outside the factory premises at the periphery of the industry. Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009.

Noise Levels: Day time (6 AM to 10 PM) - 75 dB (A)

Night time (10 PM to 6 AM) - 70 dB (A)

16.The industry shall comply with emission limits for DG sets of capacity upto 800 KW as per the Notification G.S.R. 804(E), dated 03.11.2022, under the Environment (Protection) Act Rules. In case of DG sets of capacity more than 800 KW shall comply with emission limits as per the Notification G.S.R.489 (E), dated 09.07.2002 at serial no.96, under the Environment (Protection) Act, 1986.

17.The industry shall properly operate the multi stage scrubbers for scrubbing of process

emissions. The industry shall maintain online pH measuring facility with auto recording facility for scrubbers and connect to APPCB website. Scrubbed liquid shall be recycled as far as possible and finally sent to ETP for further treatment.

18. The industry shall send the used / spent solvents to the recyclers (or) process them at their own solvent recovery facility within the premises.
19. The evaporation losses in solvents shall be controlled by taking suitable measures, which include:
 - a. Chilled brine circulation to effectively reduce the solvent losses into the atmosphere.
 - b. Transfer of solvents by using pumps and closed conveyance instead of manual handling.
 - c. Closed centrifuges be used due to which solvent losses are reduced drastically.
 - d. The reactor vents connected with primary & secondary condensers to catch the solvent vapours.
20. The industry shall not use odour causing substances such as Mercaptan or cause odour nuisance in the surroundings.
21. The industry shall get the odour assessment study & VOCs and their impact in and around their premises, conducted by NEERI for the proposed change of product mix after commencement of operations.
22. The industry shall carry out continuous monitoring of odour levels LDAR (LEL) and VOC concentration as recommended by NEERI.
23. The industry shall maintain effective sprinkler system to control fugitive emissions at coal stock yard and report compliance to concerned RO.
24. The industry shall maintain VOC monitoring system with auto recording facility to all the production blocks and shall place the VOC meter in such a way towards Village habitations and downwind directions and transmit the data to APPCB website continuously.

Solid waste:

23. The industry shall not dispose any non-hazardous waste outside the industry premises. The industry shall dispose other non-hazardous wastes as per the disposal option specified below:

Sl. No.	Name of Waste	Quantity	Method of disposal
1.	Boiler Ash	13.5 TPD	Shall be disposed to brick manufacturers.

GENERAL:

24. The industry shall not manufacture any product, other than those mentioned in this order, without CFE & CFO of the Board. The industry should not increase the capacity beyond the permitted capacity mentioned in this order, without obtaining CFE & CFO of the Board.
25. The industry shall maintain the records of by-products generation & its utilization in process and its quantity of disposed to other units for reuse
26. The industry shall properly operate and maintain online real time monitoring system along with web camera facilities and shall ensure that it is connected to APPCB / CPCB websites as per CPCB directions dt. 05.02.2014 / 02.03.2015.
27. The industry shall provide a sampling port with removable dummy of not less than 15 cm diameter in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15 AMP 250 V plug point shall be provided on the platform.

28. The industry shall maintain the monitoring system to all the stacks in the plant. Regular monitoring shall be carried out and report shall be submitted to the concerned Regional Office.
29. The drums containing chemicals / solvents shall be stored under a roof on elevated platform with a provision to collect leakages / spillages in the collection pit.
30. The industry shall store hazardous waste in closed sheds with dyke wall leachate collection sump.
31. The industry shall store the coal & Boiler ash in closed rooms only. The industry shall not store the coal & Boiler ash openly.
32. The industry shall ensure that there shall not be any change in the process technology and scope of working without prior approval from the Board.
33. Thick green belt shall be maintained with native species all along the boundary & vacant spaces with tall growing trees with good canopy and it shall not be less than 33 % of the total area.
34. The industry shall implement adequate measures to control all fugitive emissions from the plant.
35. The following rules and regulations (as amended and upgraded from time to time) notified by the MoEF&CC, GoI shall be implemented.
 - a. Regulation of Persistent Organic Pollutants Rules, 2018.
 - b. Hazardous waste and other wastes (Management and Transboundary Movement) Rules, 2016.
 - c. Plastic Waste Management Rules, 2022.
 - d. Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
 - e. Fly Ash Notification, 2016.
 - f. Battery Waste Management Rules, 2022.
 - g. E-Waste (Management) Rules, 2022.
 - h. Construction and Demolition waste Management Rules, 2016.
 - i. Solid Waste Management Rules, 2016.
 - j. The Public Liability Insurance Act, 1991 and its amendments thereof.
 - k. Bio Medical Waste Management Rules, 2016
36. The industry shall maintain the following records and the same shall be made available to the inspecting officers of the Board:
 - a. Daily production details.
 - b. Quantity of Effluents generated, treated, recycled/reused and disposed.
 - c. Log Books for pollution control systems.
 - d. Characteristics of ambient air, effluents and emissions.
 - e. Hazardous/non hazardous solid waste generated and disposed.
 - f. Inspection book.
 - g. Manifest copies of hazardous waste.
37. The industry shall renew the fire NOC & PESO from time to time and shall submit a copy at concerned RO.
38. The industry shall maintain valid PLI policy which includes Environmental Relief Fund (ERF) and submit copy to RO on yearly base.
39. The industry shall carry out mock drills at least once in six months, as required under the MSIHC Rules, 1989 and submit the report to concerned RO.
40. The industry shall comply with the SoP issued by CPCB for Solvent Recovery units dated 22.03.2021. The total cumulative losses of solvents shall not be more than 5% of the solvent on annual basis from storage inventory.
41. The industry shall submit the information regarding usage of Ozone Depleting Substance once in six months to the Regional Office and Zonal Office of the Board.

42. The industry shall comply with the Regulation of Persistent Organic Pollutants Rules, 2018 notified by the MOEF&CC Notification vide G.S.R. 207 (E) dated 30.05.2018. As per the notification, the following 7 chemicals are prohibited to manufacturer, trade, use, import and export:
- Chlordecone,
 - Hexabromobiphenyl,
 - Hexa bromo diphenyl ether and hepta bromo diphenyl ether (commercial octa-BDE),
 - Tetra bromo diphenyl ether and penta bromo diphenyl ether (commercial penta-BDE),
 - Penta chloro benzene,
 - Hexabromocyclododecane and
 - Hexa chloro butadine.
43. The industry shall submit the Environmental Statement in Form – V.
44. The industry shall comply with standards and directions issued by CPCB /MoEF&CC as and when notifications are issued.
45. The industry shall comply with the Task Force directions issued in Stop production order Dt.10.02.2020 and shall comply the Task Force directions issued from time to time.
46. The industry shall conduct safety report for the proposed new products as applicable within 4 - 6 weeks.
47. The industry shall follow the CPCB guidelines regarding the manufacture of by-products (i.e, sodium cyanide etc.,)
48. The industry shall prepare a safety report and carry out an independent safety audit report of the respective industrial activities including chemical storages / isolated storages by an expert not associated with such industrial activity as required under Rule 10 of MSIHC Rules, 1989 and get it approved by the Factories Dept., and submit the compliance along with copy of the safety report, safety audit report and safety certificate at concerned Regional Office, APPCB.
49. The conditions stipulated are without prejudice to the rights and contentions of this board in any Hon'ble court of law.
50. The industry shall comply with standards and directions issued by APPCB / CPCB / MoEF& CC as and when notifications are issued from time to time.
51. The industry shall submit Half yearly compliance reports to all the stipulated conditions in Environmental Clearance (EC), Consent for Establishment (CFE) and Consent for Operation (CFO) through website i.e., <https://pcb.ap.gov.in> by 1st of January and 1st July of every year. The first half yearly compliance reports shall be furnished by the industry and second half yearly compliance reports shall be the audited through MoEF&CC recognized and National Accreditation Board for Laboratory Testing (NABL) accredited third party.
52. The industry shall install digital display boards at publicly visible places at the main gate indicating the products manufactured Vs permitted quantities, Treated effluent concentrations Vs discharge standards, Stack emission & AAQ concentrations Vs standards, hazardous waste generation, disposed, stock Vs permitted quantities and validity of CFO; and exhibit the CFO order at a prominent place in the factory premises, as per Hon'ble Supreme Court order.

Special Conditions:

51. The industry shall inventorize the storage quantities of hazardous chemicals (raw materials), products, as per the hazard nature of reactivity/ toxicity/flammability/ explosive materials stored/handling in the premises as defined in the MSIHC Rules,

- 1989 and the details shall be furnished to the Factories Department and to the Regional Office, APPCB on monthly basis duly certifying the same.
- 52.The industry shall identify major accident hazard chemicals & list out the hazardous chemicals endangered to human health & environment and the details shall be furnished to the Factories Department and to the Regional Office, APPCB time to time duly certifying the same by the industry. Further the industry shall extend training to the working personnel's while handling hazardous chemicals for prevention of accidents and necessary antidotes to ensure the safety, as per the MSIHC Rules, 1989 and Amendments thereof.
- 53.The industry shall submit the copy of the safety audit report and On-Site/ Off Site Emergency Plans as applicable after being certified by the Factories Department to the APPCB, Regional Office from time to time, if the storage quantity of hazardous chemicals is equal to or, in excess of the threshold quantities specified in schedule 2 & 3 of MSIHC Rules, 1989 and Amendments thereof.
- 54.The industry shall carryout calibration of safety equipments and leak detection systems at regular intervals and shall certify the same with the Factories Department. That certified copy shall be submitted to the APPCB, Regional Office.
- 55.The industry shall inventorize the hazardous wastes and its quantities stored within the industry premises as per the Hazardous and Other Wastes(Management and Transboundary Movement) Rules, 2016 (HOWM Rules, 2016)and shall furnish the details to Regional Office, APPCB on monthly basis duly certifying the same by the industry.
- 56.The industry shall install fluorescent Wind Vane at the highest point in the industry premises.
- 57.The industry shall comply with the technical suggestions at Chapter No. 7.3 & 7.4 for Hazardous Chemical handling industries by High Power Committee (HPC) of Govt. of Andhra Pradesh. The HPC report is available at www.ap.gov.in.
- 58.The industry shall submit Risk analysis and risk assessment covering worst scenario clearly describing impact within the industry premises and outside the industry premises and emergency response system.
- 59.**This order is issued subject to final orders of Hon'ble High Court in WP No: 6873 of 2023.**

SCHEDULE – C

[See rule 6 (2)]

**[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR
HANDLING HAZARDOUS WASTES]**

1. The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the Hazardous and other wastes except what is permitted through this authorization.
4. Any un authorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.

6. The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on “Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty”.
7. It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.
8. An application for the renewal of an authorization shall be made as laid down under these Rules.
9. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
10. The industry shall comply with the provisions of HWM Rules, 2016 in terms of interstate transport of Hazardous Waste and manifest document prescribed Under Rule 18 and 19 of the HWM Rules, 2016.
11. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.
12. The authorized person shall not store hazardous waste for more than 90 days as per the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016.
13. The authorized person shall store Used /Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal to the manufacturers / dealers on buy back basis.
14. The authorized person shall maintain 7 copy manifest system for transportation of waste generated and a copy shall be submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card.
15. The authorized person shall maintain proper records for Hazardous & other wastes stated in Authorization in Form-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form- 4 as per Rule 6 (5) of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 and amendments thereof by June 30th for the period ensuring 31st March of the year.
16. The authorized person shall submit the condition wise compliance report of the conditions stipulated in Schedule A, B &C of this Order on half yearly basis to Board office and concerned Regional office.

S SRI SARAVANAN, MS(SS)., O/o MEMBER SECRETARY-APPCB

To

**M/s. Bhagiradha Chemicals & Industries Ltd.,
Sy Nos. 191, 213 to 217 & 220,
Cheruvukommupalem (V), Ongole (M),
Prakasam District.**

Annexure -5
Monitoring Reports



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Office Contact . : 9966375550
Mobile : 9347237845
E-mail : mail2carelabs@gmail.com
Web : www.carelabs.in

TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date: 22.04.2025

Sample Registration NO: 1652/04/25	Sample Registration Date: 17.04.2025
Sample Collection Date: 16.04.2025	Analysis Completed Date: 22.04.2025
Analysis Starting Date: 17.04.2025	
Sample Particulars: AMBIENT AIR QUALITY	
Sampling location-1: Main Gate Security	Lab Ref: CL/ENV/AAQ/1652/04/25-001/25
Sample Collected By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/AAQ/30

TEST RESULTS

S.No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	NAAQ STANDARDS
1	Particulate Matter (PM _{2.5})	IS 5182 Part 24 -2019	µg/m ³	36.4	< 60
2	Particulate Matter (PM ₁₀)	IS 5182 Part 23 -2022	µg/m ³	61.7	< 100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -2022	µg/m ³	18.8	< 80
4	Oxides of Nitrogen (NO ₂)	IS 5182 Part 6-2022	µg/m ³	2.60	< 80
5	Acrylonitrile	Gas Chromatography	µg/m ³	< 0.01	--
6	HCL Concentration	Gas Chromatography	µg/m ³	< 0.01	--

NOTE: 1. NAAQS- National Ambient Air Quality Standards – CPCB: Industrial Area.

Instrument Details: -

Instrument : P.M 2.5/10 sampler
Model / SI No : AAS-127/11-H-105
Make : Ecotech
Calibration Due : 14.02.2026


Checked By




Authorized Signatory

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Mobile : 9347237845
E-mail : mail2carelabs@gmail.com
Web : www.carelabs.in

TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date : 22.04.2025

Sample Registration NO: 1652/04/25	Sample Registration Date: 17.04.2025
Sample Collection Date: 16.04.2025	Analysis Completed Date: 22.04.2025
Analysis Starting Date: 17.04.2025	
Sample Particulars: AMBIENT AIR QUALITY	
Sampling location-2: Power House	Lab Ref: CL/ENV/AAQ/1652/04/25-002/25
Sample Collected By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/AAQ/30

TEST RESULTS

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	NAAQ STANDARDS
1	Particulate Matter (PM _{2.5})	IS 5182 Part 24 -2019	µg/m ³	20.5	< 60
2	Particulate Matter (PM ₁₀)	IS 5182 Part 23 -2022	µg/m ³	46.9	< 100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -2022	µg/m ³	3.10	< 80
4	Oxides of Nitrogen (NO ₂)	IS 5182 Part 6-2022	µg/m ³	7.60	< 80
5	Acrylonitrile	Gas Chromatography	µg/m ³	< 0.01	--
6	HCL Concentration	Gas Chromatography	µg/m ³	< 0.01	--

NOTE: 1. NAAQS- National Ambient Air Quality Standards – CPCB: Industrial Area.

Instrument Details: -

Instrument : P.M 2.5/10 sampler
Model / SI No : AAS-127/11-J-2007
Make : Ecotech
Calibration Due : 14.02.2026


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TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date: 22.04.2025

Sample Registration NO:1652/04/25

Sample Collection Date: 16.04.2025

Sample Registration Date: 17.04.2025

Analysis Starting Date: 17.04.2025

Analysis Completed Date:22.04.2025

Sample Particulars: AMBIENT AIR QUALITY

Sampling location-3: ETP Plant

Lab Ref: CL/ENV/AAQ/1652/04/25-003/25

Sample Collected By: Care Labs Representative (Kalpana)

Sampling Procedure: CL/HYD/CHE/SOP/AAQ/30

TEST RESULTS

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	NAAQ STANDARDS
1	Particulate Matter (PM _{2.5})	IS 5182 Part 24 -2019	µg/m ³	26.9	< 60
2	Particulate Matter (PM ₁₀)	IS 5182 Part 23 -2022	µg/m ³	42.7	< 100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -2022	µg/m ³	15.3	< 80
4	Oxides of Nitrogen (NO ₂)	IS 5182 Part 6-2022	µg/m ³	20.1	< 80
5	Acrylonitrile	Gas Chromotagraphy	µg/m ³	< 0.01	--
6	HCL Concentration	Gas Chromotagraphy	µg/m ³	< 0.01	--

NOTE: 1. NAAQS- National Ambient Air Quality Standards – CPCB: Industrial Area.

Instrument Details: -

Instrument : P.M 2.5/10 sampler
Model / SI No : AAS-127/11-J-2008
Make : Ecotech
Calibration Due : 14.02.2026


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TEST REPORT

ISSUE TO:
M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date:22.04.2025

Sample Registration NO: 1652/04/25	Sample Registration Date: 17.04.2025
Sample Collection Date: 16.04.2025	Lab Ref: CL/ENV/NM/1652/04/25-001/25
Sample Particulars: NOISE LEVELS	Sampling Procedure: CL/HYD/CHE/SOP/NM/30
Sample Collected By: Care Labs Representative (Kalpana)	

TEST RESULTS

S. No	LOCATIONS	NOISE LEVELS In dB (A)	CPCB STANDARDS
1.	Main Gate Security	73.6	< 75
2.	Utility Block	62.5	< 75
3.	Production Block	54.2	< 75
4.	Boiler Area	61.8	< 75
5.	DG Set Area	62.9	< 75

Instrument Details: -

Instrument : Sound Level Meter
Model / SI No : SL-4035SD/Q672908 (0.1db)
Make : Lutron
Calibration Due : 14.02.2026


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Issue Date: 22.04.2025

Sample Registration No: 1652/04/25	Sample Registration Date: 17.04.2025
Sample Collection Date: 16.04.2025	Sample Registration Date: 17.04.2025
Sample Particulars: ILLUMINATION LEVELS	Lab Ref: CL/ENV/LUX/1652/04/25-001/25
Sample Collected By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/NM/30

TEST RESULTS

S.No	LOCATIONS	RESULTS (Lux)	IS: 6665-1972 STANDARDS(Min)
1.	Laboratory	388	300
2.	Production Block – I	421	450
3.	Production Block – II	456	450
4.	Production Block - III	470	450
5.	Raw Material Stores	260	200

Note: IS- Indian Standards.

Instrument Details: -

Instrument : Digital Lux Meter
S.No/Model No : Q951874/LX101A
Make : Lutron
Calibration Due : 14.02.2026


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ISSUE TO:

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Ongole, Andrapradesh.

Issue Date: 22.04.2025

Sample Registration NO: 1652/04/25	Sample Registration Date: 17.04.2025
Sample Collection Date: 16.04.2025	Analysis Completed Date: 22.04.2025
Analysis Starting Date: 17.04.2025	
Sample Particulars: STACK EMISSION	
Sampling location-1: Stack attached to the coal fired fluidized bed boiler-12TP	Lab Ref: CL/ENV/SK/1652/04/25-001/25
Sample Collected By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/SK/30

TEST RESULTS

S.No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	CPCB STANDARDS
1.	Diameter of Stack	--	m	1.0	--
2.	Cross Sectional Area	--	m ²	0.785	--
3.	Flue Gas Temperature	--	°C	107	--
4.	Velocity	--	m/sec	4.32	--
5.	Flow rate	--	m ³ /hr	12,208	--
6.	Particulate Matter	IS 11255 (Part 1)-1985	mg/Nm ³	28.90	< 115

Instrument Details: -

Instrument : Stack Monitoring Kit
Make : Dry Gas Meter
Model / SI No : Quinchuan&Modus G1.6/TEI-401 149 G 20
Calibration Due : 14.02.2026


Checked By




Authorized Signatory

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Sai Sadan Complex, Shiva Ganga Colony,
L.B. Nagar, Hyd-500 074.
Branches : Vijayawada, Vizag & Bangalore
Office Contact . : 9966375550
Mobile : 9347237845
E-mail : mail2carelabs@gmail.com
Web : www.carelabs.in

TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date:22.04.2025

Sample Registration No: 1652/04/25	Sample Registration Date: 17.04.2025
Sample Collection Date: 16.04.2025	Analysis Completed Date: 22.04.2025
Analysis Starting Date:17.04.2025	Lab Ref: CL/ENV/SK/1652/04/25-002/25
Sample Particulars: STACK EMISSION	Sampling Procedure: CL/HYD/CHE/SOP/SK/30
Sampling location-02: DG Set – 1-500 KVA	
Sample Collected By: Care Labs Representative (Kalpana)	

TEST RESULTS

Diameter of Stack (m)	: 0.2
Cross Sectional Area (m ²)	: 0.0314
Flue Gas Temperature (°C)	: 140
Velocity (m/sec)	: 13.90
Flow Rate (m ³ /hr)	: 1,571

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	G.S.R. 771 (E)Dated 11 th December 2013 STANDARDS
1.	Particulate Matter (PM)	IS 11255 (Part 1)-2019	g/kw hr	0.1	≤ 0.2
2.	Carbon Monoxide (CO)	CPCB Guidelines	g/kw hr	1.3	≤ 3.5
3.	Hydro Carbon (HC)	CPCB Guidelines	g/kw hr	0.9	≤ 4.0
4.	Oxides of Nitrogen (NO _x)	IS 11255 (Part 7)-2017	g/kw hr	0.6	≤ 4.0

Instrument Details: -

Instrument : Stack Monitoring Kit
Make : Lata Envirotech
Model / SI No : APM/180/40-DTB-2014
Calibration Due : 14.02.2026


Checked By


Authorized Signatory



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Branches : Vijayawada, Vizag & Bangalore

Office Contact : 9966375550

Mobile : 9347237845

E-mail : mail2carelabs@gmail.com

Web : www.carelabs.in

TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andhra Pradesh.

Issue Date: 22.04.2025

Sample Registration No: 1652/04/25	Sample Registration Date: 17.04.2025
Sample Collection Date: 16.04.2025	Analysis Completed Date: 22.04.2025
Analysis Starting Date: 17.04.2025	Lab Ref: CL/ENV/SK/1652/04/25-003/25
Sample Particulars: STACK EMISSION	
Sampling location-03: DG Set – 2- 750 KVA	
Sample Collected By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/SK/30

TEST RESULTS

Diameter of Stack (m)	: 0.22
Cross Sectional Area (m ²)	: 0.0314
Flue Gas Temperature (°C)	: 156
Velocity (m/sec)	: 13.90
Flow Rate (m ³ /hr)	: 1,571

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	G.S.R. 771 (E) Dated 11 th December 2013 STANDARDS
1.	Particulate Matter (PM)	IS 11255 (Part 1)-2019	g/kw hr	0.1	≤ 0.2
2.	Carbon Monoxide (CO)	CPCB Guidelines	g/kw hr	0.3	≤ 3.5
3.	Hydro Carbon (HC)	CPCB Guidelines	g/kw hr	1.4	≤ 4.0
4.	Oxides of Nitrogen (NO _x)	IS 11255 (Part 7)-2017	g/kw hr	0.2	≤ 4.0

Instrument Details:-

Instrument : Stack Monitoring Kit
Make : Lata Envirotech
Model / SI No : APM/180/40-DTB-2014
Calibration Due : 14.02.2026


Checked By





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Office Contact . : 9966375550

Mobile : 9347237845

E-mail : mail2carelabs@gmail.com

Web : www.carelabs.in

TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 22.04.2025

Sample Registration No : 1652/04/25

Sample Collection Date: 16.04.2025

Analysis Starting Date: 17.04.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-1:- (PB-I)

Sample Collected By: Care Labs Representative (Kalpana)

Sample Registration Date: 17.04.2025

Analysis Completion Date: 22.04.2025

Lab Ref: CL/SF/1652/04/25-001/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	3.6	<20


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TEST REPORT

ISSUED TO:
M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 22.04.2025

Sample Registration No : 1652/04/25	Sample Registration Date: 17.04.2025
Sample Collection Date: 16.04.2025	Analysis Completion Date: 22.04.2025
Analysis Starting Date: 17.04.2025	
Sample Particulars: Scrubber Fumes Monitoring	
Sampling Location: Scrubber-2:- (PB-I)	Lab Ref: CL/SF/1652/04/25-002/25
Sample Collected By: Care Labs Representative (Kalpana)	

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	2.9	<20


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TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 22.04.2025

Sample Registration No : 1652/04/25

Sample Collection Date: 16.04.2025

Analysis Starting Date: 17.04.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-3:- (PB-II)

Sample Collected By: Care Labs Representative (Kalpana)

Sample Registration Date: 17.04.2025

Analysis Completion Date: 22.04.2025

Lab Ref: CL/SF/1652/04/25-003/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	2.1	<20


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TEST REPORT

ISSUED TO:

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Ongole, Andra Pradesh.

Issue Date: 22.04.2025

Sample Registration No : 1652/04/25

Sample Collection Date: 16.04.2025

Analysis Starting Date: 17.04.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-4:- (PB-II)

Sample Collected By: Care Labs Representative (Kalpana)

Sample Registration Date: 17.04.2025

Analysis Completion Date: 22.04.2025

Lab Ref: CL/SF/1652/04/25-004/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	3.1	<20


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TEST REPORT

ISSUED TO:

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Ongole, Andra Pradesh.

Issue Date: 22.04.2025

Sample Registration No : 1652/04/25

Sample Collection Date: 16.04.2025

Analysis Starting Date: 17.04.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-5:- (PB-III)

Sample Collected By: Care Labs Representative (Kalpana)

Sample Registration Date: 17.04.2025

Analysis Completion Date: 22.04.2025

Lab Ref: CL/SF/1652/04/25-005/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	2.0	<20


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TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 22.04.2025

Sample Registration No : 1652/04/25

Sample Collection Date: 16.04.2025

Analysis Starting Date: 17.04.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-6:- (PB-III)

Sample Collected By: Care Labs Representative (Kalpana)

Sample Registration Date: 17.04.2025

Analysis Completion Date: 22.04.2025

Lab Ref: CL/SF/1652/04/25-006/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	4.3	<20


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TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date: 21.05.2025

Sample Registration NO: 2214/05/25

Sample Collection Date: 15.05.2025

Analysis Starting Date: 16.05.2025

Sample Particulars: AMBIENT AIR QUALITY

Sampling location-1: Main Gate Security

Sample Collected By: Care Labs Representative (Kalpana)

Sample Registration Date: 16.05.2025

Analysis Completed Date: 21.05.2025

Lab Ref: CL/ENV/AAQ/2214/05/25-001/25

Sampling Procedure: CL/HYD/CHE/SOP/AAQ/30

TEST RESULTS

S.No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	NAAQ STANDARDS
1	Particulate Matter (PM _{2.5})	IS 5182 Part 24 -2019	µg/m ³	39.9	< 60
2	Particulate Matter (PM ₁₀)	IS 5182 Part 23 -2022	µg/m ³	65.4	< 100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -2022	µg/m ³	15.2	< 80
4	Oxides of Nitrogen (NO ₂)	IS 5182 Part 6-2022	µg/m ³	2.50	< 80
5	Acrylonitrile	Gas Chromotagraphy	µg/m ³	< 0.01	--
6	HCL Concentration	Gas Chromotagraphy	µg/m ³	< 0.01	--

NOTE: 1. NAAQS- National Ambient Air Quality Standards – CPCB: Industrial Area.

Instrument Details: -

Instrument : P.M 2.5/10 sampler
Model / SI No : AAS-127/11-H-105
Make : Ecotech
Calibration Due : 14.02.2026


Checked By


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TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date : 21.05.2025

Sample Registration NO: 2214/05/25	Sample Registration Date: 16.05.2025
Sample Collection Date: 15.05.2025	Analysis Completed Date: 21.05.2025
Analysis Starting Date: 16.05.2025	
Sample Particulars: AMBIENT AIR QUALITY	
Sampling location-2: Power House	Lab Ref: CL/ENV/AAQ/2214/05/25-002/25
Sample Collected By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/AAQ/30

TEST RESULTS

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	NAAQ STANDARDS
1	Particulate Matter (PM _{2.5})	IS 5182 Part 24 -2019	µg/m ³	19.9	< 60
2	Particulate Matter (PM ₁₀)	IS 5182 Part 23 -2022	µg/m ³	38.6	< 100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -2022	µg/m ³	3.20	< 80
4	Oxides of Nitrogen (NO ₂)	IS 5182 Part 6-2022	µg/m ³	6.50	< 80
5	Acrylonitrile	Gas Chromatography	µg/m ³	< 0.01	—
6	HCL Concentration	Gas Chromatography	µg/m ³	< 0.01	—

NOTE: 1. NAAQS- National Ambient Air Quality Standards – CPCB: Industrial Area.

Instrument Details: -

Instrument : P.M 2.5/10 sampler
Model / SI No : AAS-127/11-J-2007
Make : Ecotech
Calibration Due : 14.02.2026


Checked By


Authorized Signatory



TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andhrapradesh.

Issue Date: 21.05.2025

Sample Registration NO:2214/05/25	Sample Registration Date: 16.05.2025
Sample Collection Date: 15.05.2025	Analysis Completed Date:21.05.2025
Analysis Starting Date: 16.05.2025	
Sample Particulars: AMBIENT AIR QUALITY	
Sampling location-3: ETP Plant	Lab Ref: CL/ENV/AAQ/2214/05/25-003/25
Sample Collected By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/AAQ/30

TEST RESULTS

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	NAAQ STANDARDS
1	Particulate Matter (PM _{2.5})	IS 5182 Part 24 -2019	µg/m ³	30.1	< 60
2	Particulate Matter (PM ₁₀)	IS 5182 Part 23 -2022	µg/m ³	49.8	< 100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -2022	µg/m ³	13.2	< 80
4	Oxides of Nitrogen (NO ₂)	IS 5182 Part 6-2022	µg/m ³	25.8	< 80
5	Acrylonitrile	Gas Chromatography	µg/m ³	< 0.01	--
6	HCL Concentration	Gas Chromatography	µg/m ³	< 0.01	--

NOTE: 1. NAAQS- National Ambient Air Quality Standards – CPCB: Industrial Area.

Instrument Details: -

Instrument : P.M 2.5/10 sampler
Model / SI No : AAS-127/11-J-2008
Make : Ecotech
Calibration Due : 14.02.2026


Checked By


Authorized Signatory





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An NABL Accredited Laboratory in Chemical & Biological Scope.TC - 12742.
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Corp. off. : # 3-11-482/2, Plot No.1, 3rd Floor,
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L.B. Nagar, Hyd-500 074.
Branches : Vijayawada, Vizag & Bangalore
Office Contact : 9966375550
Mobile : 9347237845
E-mail : mail2carelabs@gmail.com
Web : www.carelabs.in

TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date: 21.05.2025

Sample Registration NO: 2214/05/25	Sample Registration Date: 16.05.2025
Sample Collection Date: 15.05.2025	Analysis Completed Date: 21.05.2025
Analysis Starting Date: 16.05.2025	
Sample Particulars: STACK EMISSION	
Sampling location-1: Stack attached to the coal fired fluidized bed boiler-12TP	Lab Ref: CL/ENV/SK/2214/05/25-001/25
Sample Collected By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/SK/30

TEST RESULTS

S.No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	CPCB STANDARDS
1.	Diameter of Stack	--	m	1.0	--
2.	Cross Sectional Area	--	m ²	0.785	--
3.	Flue Gas Temperature	--	°C	104	--
4.	Velocity	--	m/sec	3.60	--
5.	Flow rate	--	m ³ /hr	10.173	--
6.	Particulate Matter	IS 11255 (Part 1)-1985	mg/Nm ³	26.20	< 115

Instrument Details: -

Instrument : Stack Monitoring Kit
Make : Dry Gas Meter
Model / SI No : Quinchuan&Modus G1.6/TEI-401 149 G 20
Calibration Due : 14.02.2026


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Authorized Signatory



TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date:21.05.2025

Sample Registration NO: 2214/05/25

Sample Collection Date: 15.05.2025

Sample Registration Date: 16.05.2025

Sample Particulars: NOISE LEVELS

Lab Ref: CL/ENV/NM/2214/05/25-001/25

Sample Collected By: Care Labs Representative (Kalpana)

Sampling Procedure: CL/HYD/CHE/SOP/NM/30

TEST RESULTS

S. No	LOCATIONS	NOISE LEVELS In dB (A)	CPCB STANDARDS
1.	Main Gate Security	74.6	< 75
2.	Utility Block	69.5	< 75
3.	Production Block	50.3	< 75
4.	Boiler Area	62.5	< 75
5.	DG Set Area	60.1	< 75

Instrument Details: -

Instrument : Sound Level Meter
Model / SI No : SL-4035SD/Q672908 (0.1db)
Make : Lutron
Calibration Due : 14.02.2026


Checked By


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TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date: 21.05.2025

Sample Registration No: 2214/05/25	Sample Registration Date: 16.05.2025
Sample Collection Date: 15.05.2025	Lab Ref: CL/ENV/LUX/2214/05/25-001/25
Sample Particulars: ILLUMINATION LEVELS	Sampling Procedure: CL/HYD/CHE/SOP/NM/30
Sample Collected By: Care Labs Representative (Kalpana)	

TEST RESULTS

S.No	LOCATIONS	RESULTS (Lux)	IS: 6665-1972 STANDARDS(Min)
1.	Laboratory	364	300
2.	Production Block – I	410	450
3.	Production Block – II	428	450
4.	Production Block - III	458	450
5.	Raw Material Stores	240	200

Note: IS- Indian Standards.

Instrument Details: -

Instrument : Digital Lux Meter
S.No/Model No : Q951874/LX101A
Make : Lutron
Calibration Due : 14.02.2026


Checked By


Authorized Signatory



TEST REPORT

ISSUE TO:
M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date:21.05.2025

Sample Registration No: 2214/05/25	Sample Registration Date: 16.05.2025
Sample Collection Date: 15.05.2025	Analysis Completed Date: 21.05.2025
Analysis Starting Date:16.05.2025	Lab Ref: CL/ENV/SK/2214/05/25-002/25
Sample Particulars: STACK EMISSION	Sampling Procedure: CL/HYD/CHE/SOP/SK/30
Sampling location-02: DG Set – 1-500 KVA	
Sample Collected By: Care Labs Representative (Kalpana)	


TEST RESULTS

Diameter of Stack (m) : 0.2
Cross Sectional Area (m²) : 0.0314
Flue Gas Temperature (°C) : 159
Velocity (m/sec) : 13.60
Flow Rate (m³/hr) : 1,537

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	G.S.R. 771 (E)Dated 11 th December 2013 STANDARDS
1.	Particulate Matter (PM)	IS 11255 (Part 1)-2019	g/kw hr	0.2	≤ 0.2
2.	Carbon Monoxide (CO)	CPCB Guidelines	g/kw hr	1.4	≤ 3.5
3.	Hydro Carbon (HC)	CPCB Guidelines	g/kw hr	0.7	≤ 4.0
4.	Oxides of Nitrogen (NO _x)	IS 11255 (Part 7)-2017	g/kw hr	0.5	≤ 4.0

Instrument Details: -

Instrument : Stack Monitoring Kit
Make : Lata Envirotech
Model / SI No : APM/180/40-DTB-2014
Calibration Due : 14.02.2026


Checked By




Authorized Signatory

TEST REPORT

ISSUE TO:
 M/s. Bhagiradha Chemicals & Industries Limited,
 Ongole, Andra Pradesh.

Issue Date: 21.05.2025

Sample Registration No: 2214/05/25	Sample Registration Date: 16.05.2025
Sample Collection Date: 15.05.2025	Analysis Completed Date: 21.05.2025
Analysis Starting Date: 16.05.2025	Lab Ref: CL/ENV/SK/2214/05/25-003/25
Sample Particulars: STACK EMISSION	
Sampling location-03: DG Set – 2- 750 KVA	
Sample Collected By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/SK/30

TEST RESULTS

Diameter of Stack (m) : 0.22
 Cross Sectional Area (m²) : 0.0314
 Flue Gas Temperature (°C) : 152
 Velocity (m/sec) : 12.30
 Flow Rate (m³/hr) : 1,390

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	G.S.R. 771 (E) Dated 11 th December 2013 STANDARDS
1.	Particulate Matter (PM)	IS 11255 (Part 1)-2019	g/kw hr	0.1	≤ 0.2
2.	Carbon Monoxide (CO)	CPCB Guidelines	g/kw hr	0.4	≤ 3.5
3.	Hydro Carbon (HC)	CPCB Guidelines	g/kw hr	1.2	≤ 4.0
4.	Oxides of Nitrogen (NO _x)	IS 11255 (Part 7)-2017	g/kw hr	0.3	≤ 4.0

Instrument Details:-

Instrument : Stack Monitoring Kit
 Make : Lata Envirotech
 Model / SI No : APM/180/40-DTB-2014
 Calibration Due : 14.02.2026


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Office Contact . : 9966375550

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Web : www.carelabs.in

TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 21.05.2025

Sample Registration No : 2214/05/25

Sample Collection Date: 15.05.2025

Analysis Starting Date: 16.05.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-1:- (PB-I)

Sample Collected By: Care Labs Representative (Kalpana)


Sample Registration Date: 16.05.2025

Analysis Completion Date: 21.05.2025

Lab Ref: CL/SF/2214/05/25-001/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	2.9	<20


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TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 21.05.2025

Sample Registration No : 2214/05/25

Sample Collection Date: 15.05.2025

Analysis Starting Date: 16.05.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-2:- (PB-I)

Sample Collected By: Care Labs Representative (Kalpana)

Sample Registration Date: 16.05.2025

Analysis Completion Date: 21.05.2025

Lab Ref: CL/SF/2214/05/25-002/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	3.1	<20


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TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 21.05.2025

Sample Registration No : 2214/05/25

Sample Collection Date: 15.05.2025

Analysis Starting Date: 16.05.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-3:- (PB-II)

Sample Collected By: Care Labs Representative (Kalpana)

Sample Registration Date: 16.05.2025

Analysis Completion Date: 21.05.2025

Lab Ref: CL/SF/2214/05/25-003/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	3.4	<20


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TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 21.05.2025

Sample Registration No : 2214/05/25

Sample Collection Date: 15.05.2025

Analysis Starting Date: 16.05.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-4:- (PB-II)

Sample Collected By: Care Labs Representative (Kalpana)

Sample Registration Date: 16.05.2025

Analysis Completion Date: 21.05.2025

Lab Ref: CL/SF/2214/05/25-004/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	3.7	<20


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TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 21.05.2025

Sample Registration No : 2214/05/25

Sample Collection Date: 15.05.2025

Analysis Starting Date: 16.05.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-5:- (PB-III)

Sample Collected By: Care Labs Representative (Kalpana)

Sample Registration Date: 16.05.2025

Analysis Completion Date: 21.05.2025

Lab Ref: CL/SF/2214/05/25-005/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	2.5	<20


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TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 21.05.2025

Sample Registration No : 2214/05/25

Sample Collection Date: 15.05.2025

Analysis Starting Date: 16.05.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-6:- (PB-III)

Sample Collected By: Care Labs Representative (Kalpana)

Sample Registration Date: 16.05.2025

Analysis Completion Date: 21.05.2025

Lab Ref: CL/SF/2214/05/25-006/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	4.0	<20


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TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date: 21.06.2025

Sample Registration NO: 0292/06/25	Sample Registration Date: 16.06.2025
Sample Collection Date: 15.06.2025	Analysis Completed Date: 21.06.2025
Analysis Starting Date: 16.06.2025	
Sample Particulars: AMBIENT AIR QUALITY	
Sampling location-1: Main Gate Security	Lab Ref: CL/ENV/AAQ/0292/06/25-001/25
Sample Collected By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/AAQ/30

TEST RESULTS

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	NAAQ STANDARDS
1	Particulate Matter (PM _{2.5})	IS 5182 Part 24 -2019	µg/m ³	46.3	< 60
2	Particulate Matter (PM ₁₀)	IS 5182 Part 23 -2022	µg/m ³	72.5	< 100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -2022	µg/m ³	20.4	< 80
4	Oxides of Nitrogen (NO ₂)	IS 5182 Part 6-2022	µg/m ³	2.60	< 80
5	Acrylonitrile	Gas Chromatography	µg/m ³	< 0.01	--
6	HCL Concentration	Gas Chromatography	µg/m ³	< 0.01	--

NOTE: 1. NAAQS- National Ambient Air Quality Standards – CPCB: Industrial Area.

Instrument Details: -

Instrument : P.M 2.5/10 sampler
Model / SI No : AAS-127/11-H-105
Make : Ecotech
Calibration Due : 14.02.2026


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TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date : 21.06.2025

Sample Registration NO: 0292/06/25

Sample Collection Date: 15.06.2025

Analysis Starting Date: 16.06.2025

Sample Particulars: AMBIENT AIR QUALITY

Sampling location-2: Power House

Sample Collected By: Care Labs Representative (Kalpana)

Sample Registration Date: 16.06.2025

Analysis Completed Date: 21.06.2025

Lab Ref: CL/ENV/AAQ/0292/06/25-002/25

Sampling Procedure: CL/HYD/CHE/SOP/AAQ/30

TEST RESULTS

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	NAAQ STANDARDS
1	Particulate Matter (PM _{2.5})	IS 5182 Part 24 -2019	µg/m ³	22.3	< 60
2	Particulate Matter (PM ₁₀)	IS 5182 Part 23 -2022	µg/m ³	41.5	< 100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -2022	µg/m ³	2.60	< 80
4	Oxides of Nitrogen (NO ₂)	IS 5182 Part 6-2022	µg/m ³	7.10	< 80
5	Acrylonitrile	Gas Chromatography	µg/m ³	< 0.01	--
6	HCL Concentration	Gas Chromatography	µg/m ³	< 0.01	--

NOTE: 1. NAAQS- National Ambient Air Quality Standards – CPCB: Industrial Area.

Instrument Details: -

Instrument : P.M 2.5/10 sampler

Model / SI No : AAS-127/11-J-2007

Make : Ecotech

Calibration Due : 14.02.2026



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TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date: 21.06.2025

Sample Registration NO:0292/06/25	Sample Registration Date: 16.06.2025
Sample Collection Date: 15.06.2025	Analysis Completed Date:21.06.2025
Analysis Starting Date: 16.06.2025	
Sample Particulars: AMBIENT AIR QUALITY	
Sampling location-3: ETP Plant	Lab Ref: CL/ENV/AAQ/0292/06/25-003/25
Sample Collected By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/AAQ/30

TEST RESULTS

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	NAAQ STANDARDS
1	Particulate Matter (PM _{2.5})	IS 5182 Part 24 -2019	µg/m ³	39.3	< 60
2	Particulate Matter(PM ₁₀)	IS 5182 Part 23 -2022	µg/m ³	58.7	< 100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -2022	µg/m ³	21.4	< 80
4	Oxides of Nitrogen (NO ₂)	IS 5182 Part 6-2022	µg/m ³	29.5	< 80
5	Acrylonitrile	Gas Chromatography	µg/m ³	< 0.01	--
6	HCL Concentration	Gas Chromatography	µg/m ³	< 0.01	--

NOTE: 1. NAAQS- National Ambient Air Quality Standards – CPCB: Industrial Area.

Instrument Details: -

Instrument : P.M 2.5/10 sampler
Model / SI No : AAS-127/11-J-2008
Make : Ecotech
Calibration Due : 14.02.2026


Checked By




Authorized Signatory

TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date:21.06.2025

Sample Registration NO: 0292/06/25

Sample Collection Date: 15.06.2025

Sample Particulars: NOISE LEVELS

Sample Collected By: Care Labs Representative (Kalpana)

Sample Registration Date: 16.06.2025

Lab Ref: CL/ENV/NM/0292/06/25-001/25

Sampling Procedure: CL/HYD/CHE/SOP/NM/30

TEST RESULTS

S. No	LOCATIONS	NOISE LEVELS In dB (A)	CPCB STANDARDS
1.	Main Gate Security	72.1	< 75
2.	Utility Block	70.4	< 75
3.	Production Block	68.5	< 75
4.	Boiler Area	69.7	< 75
5.	DG Set Area	62.3	< 75

Instrument Details: -

Instrument : Sound Level Meter
Model / SI No : SL-4035SD/Q672908 (0.1db)
Make : Lutron
Calibration Due : 14.02.2026


Checked By


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TEST REPORT

ISSUE TO:
M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date: 21.06.2025

Sample Registration No: 0292/06/25

Sample Collection Date: 15.06.2025

Sample Registration Date: 16.06.2025

Sample Particulars: ILLUMINATION LEVELS

Lab Ref: CL/ENV/LUX/0292/06/25-001/25

Sample Collected By: Care Labs Representative (Kalpana)

Sampling Procedure: CL/HYD/CHE/SOP/NM/30

TEST RESULTS

S.No	LOCATIONS	RESULTS (Lux)	IS: 6665-1972 STANDARDS(Min)
1.	Laboratory	340	300
2.	Production Block - I	386	450
3.	Production Block - II	410	450
4.	Production Block - III	432	450
5.	Raw Material Stores	258	200

Note: IS- Indian Standards.

Instrument Details: -

Instrument : Digital Lux Meter
S.No/Model No : Q951874/LX101A
Make : Lutron
Calibration Due : 14.02.2026

Checked By



Authorized Signatory

TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date: 21.06.2025

Sample Registration NO: 0292/06/25	Sample Registration Date: 16.06.2025
Sample Collection Date: 15.06.2025	Analysis Completed Date: 21.06.2025
Analysis Starting Date: 16.06.2025	
Sample Particulars: STACK EMISSION	
Sampling location-1: Stack attached to the coal fired fluidized bed boiler-12TP	Lab Ref: CL/ENV/SK/0292/06/25-001/25
Sample Collected By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/SK/30

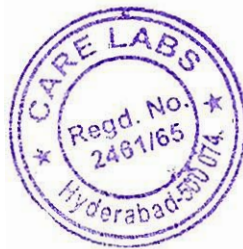
TEST RESULTS

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	CPCB STANDARDS
1.	Diameter of Stack	--	m	1.0	--
2.	Cross Sectional Area	--	m ²	0.785	--
3.	Flue Gas Temperature	--	°C	96	--
4.	Velocity	--	m/sec	3.10	--
5.	Flow rate	--	m ³ /hr	8.760	--
6.	Particulate Matter	IS 11255 (Part 1)-1985	mg/Nm ³	29.10	< 115

Instrument Details: -

Instrument : Stack sampler
Model / SI No : VSS-1/ 146-DTH-2018
Make : Envirotech
Calibration Due : 14.02.2026

Checked By




Authorized Signatory

TEST REPORT

ISSUE TO:
M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date:21.06.2025

Sample Registration No: 0292/06/25	Sample Registration Date: 16.06.2025
Sample Collection Date: 15.06.2025	Analysis Completed Date: 21.06.2025
Analysis Starting Date:16.06.2025	Lab Ref: CL/ENV/SK/0292/06/25-002/25
Sample Particulars: STACK EMISSION	
Sampling location-02: DG Set – 1-500 KVA	
Sample Collected By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/SK/30

TEST RESULTS

Diameter of Stack (m) : 0.2
Cross Sectional Area (m²) : 0.0314
Flue Gas Temperature (°C) : 148
Velocity (m/sec) : 13.44
Flow Rate (m³/hr) : 1,519

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	G.S.R. 771 (E) Dated 11 th December 2013 STANDARDS
1.	Particulate Matter (PM)	IS 11255 (Part 1)-2019	g/kw hr	0.2	≤ 0.2
2.	Carbon Monoxide (CO)	CPCB Guidelines	g/kw hr	1.3	≤ 3.5
3.	Hydro Carbon (HC)	CPCB Guidelines	g/kw hr	0.6	≤ 4.0
4.	Oxides of Nitrogen (NO _x)	IS 11255 (Part 7)-2017	g/kw hr	0.4	≤ 4.0

Instrument Details: -

Instrument : Stack Monitoring Kit
Make : Lata Envirotech
Model / SI No : APM/180/40-DTB-2014
Calibration Due : 14.02.2026


Checked By




Authorized Signatory

TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 21.06.2025

Sample Registration No: 0292/06/25	Sample Registration Date: 16.06.2025
Sample Collection Date: 15.06.2025	Analysis Completed Date: 21.06.2025
Analysis Starting Date: 16.06.2025	Lab Ref: CL/ENV/SK/0292/06/25-003/25
Sample Particulars: STACK EMISSION	
Sampling location-03: DG Set – 2- 750 KVA	
Sample Collected By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/SK/30

TEST RESULTS

Diameter of Stack (m)	: 0.22
Cross Sectional Area (m ²)	: 0.0314
Flue Gas Temperature (°C)	: 160
Velocity (m/sec)	: 12.40
Flow Rate (m ³ /hr)	: 1,401

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	G.S.R. 771 (E) Dated 11 th December 2013 STANDARDS
1.	Particulate Matter (PM)	IS 11255 (Part 1)-2019	g/kw hr	0.1	≤ 0.2
2.	Carbon Monoxide (CO)	CPCB Guidelines	g/kw hr	1.2	≤ 3.5
3.	Hydro Carbon (HC)	CPCB Guidelines	g/kw hr	1.5	≤ 4.0
4.	Oxides of Nitrogen (NO _x)	IS 11255 (Part 7)-2017	g/kw hr	0.8	≤ 4.0

Instrument Details: -

Instrument : Stack Monitoring Kit
Make : Lata Envirotech
Model / SI No : APM/180/40-DTB-2014
Calibration Due : 14.02.2026


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Branches : Vijayawada, Vizag & Bangalore
Office Contact . : 9966375550
Mobile : 9347237845
E-mail : mail2carelabs@gmail.com
Web : www.carelabs.in

TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 21.06.2025

Sample Registration No : 0292/06/25

Sample Collection Date: 15.06.2025

Analysis Starting Date: 16.06.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-1:- (PB-I)

Sample Collected By: Care Labs Representative (Kalpana)

Sample Registration Date: 16.06.2025

Analysis Completion Date: 21.06.2025

Lab Ref: CL/SF/0292/06/25-001/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	3.4	<20

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Ongole, Andra Pradesh.

Issue Date: 21.06.2025

Sample Registration No : 0292/06/25

Sample Collection Date: 15.06.2025

Analysis Starting Date: 16.06.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-2:- (PB-I)

Sample Collected By: Care Labs Representative (Kalpana)

Sample Registration Date: 16.06.2025

Analysis Completion Date: 21.06.2025

Lab Ref: CL/SF/0292/06/25-002/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	3.6	<20


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Issue Date: 21.06.2025

Sample Registration No : 0292/06/25

Sample Collection Date: 15.06.2025

Analysis Starting Date: 16.06.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-3:- (PB-II)

Sample Collected By: Care Labs Representative (Kalpana)

Sample Registration Date: 16.06.2025

Analysis Completion Date: 21.06.2025

Lab Ref: CL/SF/0292/06/25-003/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	2.6	<20


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ISSUED TO:

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Ongole, Andra Pradesh.

Issue Date: 21.06.2025

Sample Registration No : 0292/06/25

Sample Collection Date: 15.06.2025

Analysis Starting Date: 16.06.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-4:- (PB-II)

Sample Collected By: Care Labs Representative (Kalpana)

Sample Registration Date: 16.06.2025

Analysis Completion Date: 21.06.2025

Lab Ref: CL/SF/0292/06/25-004/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	3.2	<20

Sushma
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Mamatha
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TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 21.06.2025

Sample Registration No : 0292/06/25

Sample Collection Date: 15.06.2025

Analysis Starting Date: 16.06.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-5:- (PB-III)

Sample Collected By: Care Labs Representative (Kalpana)

Sample Registration Date: 16.06.2025

Analysis Completion Date: 21.06.2025

Lab Ref: CL/SF/0292/06/25-005/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	2.2	<20


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ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 21.06.2025

Sample Registration No : 0292/06/25

Sample Collection Date: 15.06.2025

Analysis Starting Date: 16.06.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-6:- (PB-III)

Sample Collected By: Care Labs Representative (Kalpana)

Sample Registration Date: 16.06.2025

Analysis Completion Date: 21.06.2025

Lab Ref: CL/SF/0292/06/25-006/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	2.0	<20


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TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date: 21.07.2025

Sample Registration NO: 0635/07/25	Sample Registration Date: 15.07.2025
Sample Collection Date: 14.07.2025	Analysis Completed Date: 21.07.2025
Analysis Starting Date: 15.07.2025	
Sample Particulars: AMBIENT AIR QUALITY	
Sampling location-1: Main Gate Security	Lab Ref: CL/ENV/AAQ/0635/07/25-001/25
Sample Received By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/AAQ/30

TEST RESULTS

S.No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	NAAQ STANDARDS
1	Particulate Matter (PM _{2.5})	IS 5182 Part 24 -2019	µg/m ³	35.2	< 60
2	Particulate Matter (PM ₁₀)	IS 5182 Part 23 -2022	µg/m ³	59.9	< 100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -2022	µg/m ³	12.4	< 80
4	Oxides of Nitrogen (NO ₂)	IS 5182 Part 6-2022	µg/m ³	2.30	< 80
5	Acrylonitrile	Gas Chromotography	µg/m ³	< 0.01	--
6	HCL Concentration	Gas Chromotography	µg/m ³	< 0.01	--

NOTE: 1. NAAQS- National Ambient Air Quality Standards – CPCB: Industrial Area.

Instrument Details: -

Instrument : P.M 2.5/10 sampler
Model / SI No : AAS-127/11-H-105
Make : Ecotech
Calibration Due : 14.02.2026



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TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date: 21.07.2025

Sample Registration NO: 0635/07/25	Sample Registration Date: 15.07.2025
Sample Collection Date: 14.07.2025	Analysis Completed Date: 21.07.2025
Analysis Starting Date: 15.07.2025	
Sample Particulars: AMBIENT AIR QUALITY	
Sampling location-2: Power House	Lab Ref: CL/ENV/AAQ/0635/07/25-002/25
Sample Received By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/AAQ/30

TEST RESULTS

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	NAAQ STANDARDS
1	Particulate Matter (PM _{2.5})	IS 5182 Part 24 -2019	µg/m ³	24.5	< 60
2	Particulate Matter (PM ₁₀)	IS 5182 Part 23 -2022	µg/m ³	49.8	< 100
3	Sulphur,Dioxide (SO ₂)	IS 5182 Part 2 -2022	µg/m ³	3.80	< 80
4	Oxides of Nitrogen (NO ₂)	IS 5182 Part 6-2022	µg/m ³	6.10	< 80
5	Acrlonitrile	Gas Chromotagraphy	µg/m ³	< 0.01	--
6	HCL Concentration	Gas Chromotagraphy	µg/m ³	< 0.01	--

NOTE: 1. NAAQS- National Ambient Air Quality Standards – CPCB: Industrial Area.

Instrument Details: -

Instrument : P.M 2.5/10 sampler
Model / SI No : AAS-127/11-J-2007
Make : Ecotech
Calibration Due : 14.02.2026



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TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date: 21.07.2025

Sample Registration NO:0635/07/25	Sample Registration Date: 15.07.2025
Sample Collection Date: 14.07.2025	Analysis Completed Date:21.07.2025
Analysis Starting Date: 15.07.2025	
Sample Particulars: AMBIENT AIR QUALITY	
Sampling location-3: ETP Plant	Lab Ref: CL/ENV/AAQ/0635/07/25-003/25
Sample Received By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/AAQ/30

TEST RESULTS

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	NAAQ STANDARDS
1	Particulate Matter (PM _{2.5})	IS 5182 Part 24 -2019	µg/m ³	21.8	< 60
2	Particulate Matter(PM ₁₀)	IS 5182 Part 23 -2022	µg/m ³	45.6	< 100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -2022	µg/m ³	10.2	< 80
4	Oxides of Nitrogen (NO ₂)	IS 5182 Part 6-2022	µg/m ³	20.1	< 80
5	Acrylonitrile	Gas Chromotagraphy	µg/m ³	< 0.01	--
6	HCL Concentration	Gas Chromotagraphy	µg/m ³	< 0.01	--

NOTE: 1. NAAQS- National Ambient Air Quality Standards – CPCB: Industrial Area.

Instrument Details: -

Instrument : P.M 2.5/10 sampler
Model / SI No : AAS-127/11-J-2008
Make : Ecotech
Calibration Due : 14.02.2026


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TEST REPORT

ISSUE TO:
M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date: 21.07.2025

Sample Registration NO: 0635/07/25

Sample Collection Date: 14.07.2025

Analysis Starting Date: 15.07.2025

Sample Particulars: STACK EMISSION

Sampling location-1: Stack attached to the coal fired fluidized bed boiler-12TP Lab Ref: CL/ENV/SK/0635/07/25-001/25

Sample Received By: Care Labs Representative (Kalpana)

Sampling Procedure: CL/HYD/CHE/SOP/SK/30

Sample Registration Date: 15.07.2025

Analysis Completed Date:21.07.2025

TEST RESULTS

S.No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	CPCB STANDARDS
1	Diameter of Stack	--	m	1.0	--
2.	Cross Sectional Area	--	m ²	0.785	--
3.	Flue Gas Temperature	--	°C	110	--
4.	Velocity	--	m/sec	3.88	--
5.	Flow rate	--	m ³ /hr	10.964	--
6.	Particulate Matter	IS 11255 (Part 1)-1985	mg/Nm ³	20.10	< 115

Instrument Details: -

Instrument : Stack Monitoring Kit
Make : Dry Gas Meter
Model / SI No : Quinchuan&Modus G1.6/TEI-401 149 G 20
Calibration Due : 14.02.2026

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TEST REPORT

ISSUE TO:

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Ongole, Andrapradesh.

Issue Date:21.07.2025

Sample Registration No: 0635/07/25	Sample Registration Date: 15.07.2025
Sample Collection Date: 14.07.2025	Analysis Completed Date: 21.07.2025
Analysis Starting Date:15.07.2025	Lab Ref: CL/ENV/SK/0635/07/25-002/25
Sample Particulars: STACK EMISSION	
Sampling location-02: DG Set – 1-500 KVA	
Sample Received By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/SK/30

TEST RESULTS

Diameter of Stack (m)	: 0.2
Cross Sectional Area (m ²)	: 0.0314
Flue Gas Temperature (°C)	: 160
Velocity (m/sec)	: 12.10
Flow Rate (m ³ /hr)	: 1,367

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	G.S.R. 771 (E)Dated 11 th December 2013 STANDARDS
1.	Particulate Matter (PM)	IS 11255 (Part 1)-2019	g/kw hr	0.1	≤ 0.2
2.	Carbon Monoxide (CO)	CPCB Guidelines	g/kw hr	1.8	≤ 3.5
3.	Hydro Carbon (HC)	CPCB Guidelines	g/kw hr	0.9	≤ 4.0
4.	Oxides of Nitrogen (NO _x)	IS 11255 (Part 7)-2017	g/kw hr	0.4	≤ 4.0

Instrument Details: -

Instrument : Stack Monitoring Kit
Make : Lata Envirotech
Model / SI No : APM/180/40-DTB-2014
Calibration Due : 14.02.2026


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TEST REPORT

ISSUE TO:
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Ongole, Andra Pradesh.

Issue Date: 21.07.2025

Sample Registration No: 0635/07/25	Sample Registration Date: 15.07.2025
Sample Collection Date: 14.07.2025	Analysis Completed Date: 21.07.2025
Analysis Starting Date: 15.07.2025	Lab Ref: CL/ENV/SK/0635/07/25-003/25
Sample Particulars: STACK EMISSION	
Sampling location-03: DG Set – 2- 750 KVA	
Sample Received By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/SK/30

TEST RESULTS

Diameter of Stack (m) : 0.22
Cross Sectional Area (m²) : 0.0314
Flue Gas Temperature (°C) : 140
Velocity (m/sec) : 11.88
Flow Rate (m³/hr) : 1,342

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	G.S.R. 771 (E) Dated 11 th December 2013 STANDARDS
1	Particulate Matter (PM)	IS 11255 (Part 1)-2019	g/kw hr	0.1	≤ 0.2
2	Carbon Monoxide (CO)	CPCB Guidelines	g/kw hr	0.2	≤ 3.5
3	Hydro Carbon (HC)	CPCB Guidelines	g/kw hr	1.6	≤ 4.0
4	Oxides of Nitrogen (NO _x)	IS 11255 (Part 7)-2017	g/kw hr	0.4	≤ 4.0

Instrument Details:-

Instrument : Stack Monitoring Kit
Make : Lata Envirotech
Model / SI No : APM/180/40-DTB-2014
Calibration Due : 14.02.2026



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TEST REPORT

ISSUE TO:
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Ongole, Andrapradesh.

Issue Date:21.07.2025

Sample Registration NO: 0635/07/25	Sample Registration Date: 15.07.2025
Sample Collection Date: 14.07.2025	Lab Ref: CL/ENV/NM/0635/07/25-001/25
Sample Particulars: NOISE LEVELS	Sampling Procedure: CL/HYD/CHE/SOP/NM/30
Sample Received By: Care Labs Representative (Kalpana)	

TEST RESULTS

S. No	LOCATIONS	NOISE LEVELS In dB (A)	CPCB STANDARDS
1.	Main Gate Security	72.5	< 75
2.	Utility Block	68.6	< 75
3.	Production Block	48.8	< 75
4.	Boiler Area	60.3	< 75
5.	DG Set Area	58.4	< 75

Instrument Details: -

Instrument : Sound Level Meter
Model / SI No : SL-4035SD/Q672908 (0.1db)
Make : Lutron
Calibration Due : 14.02.2026



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Issue Date: 21.07.2025

Sample Registration No: 0635/07/25

Sample Collection Date: 14.07.2025

Sample Registration Date: 15.07.2025

Sample Particulars: ILLUMINATION LEVELS

Lab Ref: CL/ENV/LUX/0635/07/25-001/25

Sample Received By: Care Labs Representative (Kalpana)

Sampling Procedure: CL/HYD/CHE/SOP/NM/30

TEST RESULTS

S.No	LOCATIONS	RESULTS (Lux)	IS: 6665-1972 STANDARDS(Min)
1.	Laboratory	320	300
2.	Production Block -- I	440	450
3.	Production Block -- II	439	450
4.	Production Block - III	440	450
5.	Raw Material Stores	250	200

Note: IS- Indian Standards.

Instrument Details: -

Instrument : Digital Lux Meter
S. No/Model No : Q951874/LX101A
Make : Lutron
Calibration Due : 14.02.2026


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TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 21.07.2025

Sample Registration No : 0635/07/25

Sample Collection Date: 14.07.2025

Analysis Starting Date: 15.07.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-1:- (PB-I)

Sample Received By: Care Labs Representative (Kalpana)

Sample Registration Date: 15.07.2025

Analysis Completion Date: 21.07.2025

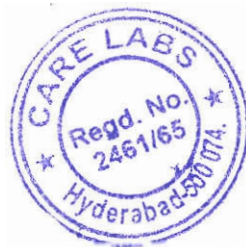
Lab Ref: CL/SF/0635/07/25-001/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	1.6	<20

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TEST REPORT

ISSUED TO:

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Ongole, Andra Pradesh.

Issue Date: 21.07.2025

Sample Registration No : 0635/07/25

Sample Collection Date: 14.07.2025

Analysis Starting Date: 15.07.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-2:- (PB-I)

Sample Received By: Care Labs Representative (Kalpana)

Sample Registration Date: 15.07.2025

Analysis Completion Date: 21.07.2025 .

Lab Ref: CL/SF/0635/07/25-002/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	2.9	<20

Checked By

Authorized Signatory





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Branches : Vijayawada, Vizag & Bangalore
Office Contact . : 9966375550
Mobile : 9347237845
E-mail : mail2carelabs@gmail.com
Web : www.carelabs.in

TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 21.07.2025

Sample Registration No : 0635/07/25	Sample Registration Date: 15.07.2025
Sample Collection Date: 14.07.2025	Analysis Completion Date: 21.07.2025
Analysis Starting Date: 15.07.2025	Lab Ref: CL/SF/0635/07/25-003/25
Sample Particulars: Scrubber Fumes Monitoring	
Sampling Location: Scrubber-3:- (PB-II)	
Sample Received By: Care Labs Representative (Kalpana)	

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	3.1	<20


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TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 21.07.2025

Sample Registration No : 0635/07/25

Sample Collection Date: 14.07.2025

Analysis Starting Date: 15.07.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-4:- (PB-II)

Sample Received By: Care Labs Representative (Kalpana)

Sample Registration Date: 15.07.2025

Analysis Completion Date: 21.07.2025

Lab Ref: CL/SF/0635/07/25-004/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	3.4	<20

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Authorized Signatory





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TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 21.07.2025

Sample Registration No : 0635/07/25

Sample Collection Date: 14.07.2025

Analysis Starting Date: 15.07.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-5:- (PB-III)

Sample Received By: Care Labs Representative (Kalpana)

Sample Registration Date: 15.07.2025

Analysis Completion Date: 21.07.2025

Lab Ref: CL/SF/0635/07/25-005/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	2.1	<20

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TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 21.07.2025

Sample Registration No : 0635/07/25

Sample Collection Date: 14.07.2025

Analysis Starting Date: 15.07.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-6:- (PB-III)

Sample Received By: Care Labs Representative (Kalpana)

Sample Registration Date: 15.07.2025

Analysis Completion Date: 21.07.2025

Lab Ref: CL/SF/0635/07/25-006/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	2.6	<20



Checked By



Authorized Signatory



TEST REPORT

ISSUE TO:
M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date: 23.08.2025

Sample Registration NO: 0941/08/25	Sample Registration Date: 19.08.2025
Sample Collection Date: 18.08.2025	Analysis Completed Date: 23.08.2025
Analysis Starting Date: 19.08.2025	
Sample Particulars: AMBIENT AIR QUALITY	
Sampling location-1: Main Gate Security	Lab Ref: CL/ENV/AAQ/0941/08/25-001/25
Sample Received By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/AAQ/30

TEST RESULTS

S.No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	NAAQ STANDARDS
1	Particulate Matter (PM _{2.5})	IS 5182 Part 24 -2019	µg/m ³	36.4	< 60
2	Particulate Matter (PM ₁₀)	IS 5182 Part 23 -2022	µg/m ³	58.5	< 100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -2022	µg/m ³	13.2	< 80
4	Oxides of Nitrogen (NO ₂)	IS 5182 Part 6-2022	µg/m ³	2.30	< 80
5	Acrylonitrile	Gas Chromatography	µg/m ³	< 0.01	--
6	HCL Concentration	Gas Chromatography	µg/m ³	< 0.01	--

NOTE: 1. NAAQS- National Ambient Air Quality Standards – CPCB: Industrial Area.

Instrument Details: -

Instrument : P.M 2.5/10 sampler
Model / SI No : AAS-127/11-H-105
Make : Ecotech
Calibration Due : 14.02.2026

Reviewed by
J. Sushma
(J. Sushma)



Authorized Signatory
P. Mamatha
(P. Mamatha)
Technical Manager

TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date: 23.08.2025

Sample Registration NO: 0941/08/25	Sample Registration Date: 19.08.2025
Sample Collection Date: 18.08.2025	Analysis Completed Date: 23.08.2025
Analysis Starting Date: 19.08.2025	
Sample Particulars: AMBIENT AIR QUALITY	
Sampling location-2: Power House	Lab Ref: CL/ENV/AAQ/0941/08/25-002/25
Sample Received By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/AAQ/30

TEST RESULTS

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	NAAQ STANDARDS
1	Particulate Matter (PM _{2.5})	IS 5182 Part 24 -2019	µg/m ³	26.8	< 60
2	Particulate Matter (PM ₁₀)	IS 5182 Part 23 -2022	µg/m ³	50.2	< 100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -2022	µg/m ³	4.32	< 80
4	Oxides of Nitrogen (NO ₂)	IS 5182 Part 6-2022	µg/m ³	7.56	< 80
5	Acrylonitrile	Gas Chromatography	µg/m ³	< 0.01	--
6	HCL Concentration	Gas Chromatography	µg/m ³	< 0.02	--

NOTE: 1. NAAQS- National Ambient Air Quality Standards – CPCB: Industrial Area.

Instrument Details: -

Instrument : P.M 2.5/10 sampler
Model / SI No : AAS-127/11-J-2007
Make : Ecotech
Calibration Due : 14.02.2026

Reviewed by
J. Sushma
(J. Sushma)



P. Mamatha
Authorized Signatory
(P. Mamatha)
Technical Manager

TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date: 23.08.2025

Sample Registration NO:0941/08/25	Sample Registration Date: 19.08.2025
Sample Collection Date: 18.08.2025	Analysis Completed Date:23.08.2025
Analysis Starting Date: 19.08.2025	
Sample Particulars: AMBIENT AIR QUALITY	
Sampling location-3: ETP Plant	Lab Ref: CL/ENV/AAQ/0941/08/25-003/25
Sample Received By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/AAQ/30

TEST RESULTS

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	NAAQ STANDARDS
1	Particulate Matter (PM _{2.5})	IS 5182 Part 24 -2019	µg/m ³	22.4	< 60
2	Particulate Matter(PM ₁₀)	IS 5182 Part 23 -2022	µg/m ³	46.8	< 100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -2022	µg/m ³	10.6	< 80
4	Oxides of Nitrogen (NO ₂)	IS 5182 Part 6-2022	µg/m ³	18.5	< 80
5	Acrylonitrile	Gas Chromotography	µg/m ³	< 0.01	--
6	HCL Concentration	Gas Chromotography	µg/m ³	< 0.01	--

NOTE: 1. NAAQS- National Ambient Air Quality Standards – CPCB: Industrial Area.

Instrument Details: -

Instrument : P.M 2.5/10 sampler
Model / SI No : AAS-127/11-J-2008
Make : Ecotech
Calibration Due : 14.02.2026

Reviewed by
J. Sushma
(J. Sushma)



Authorized Signatory

(P. Mamatha)
Technical Manager

TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andhra Pradesh.

Issue Date: 23.08.2025

Sample Registration NO: 0941/08/25

Sample Collection Date: 18.08.2025

Analysis Starting Date: 19.08.2025

Sample Particulars: **STACK EMISSION**

Sampling location-1: Stack attached to the coal fired fluidized bed boiler-12TP Lab Ref: CL/ENV/SK/0941/08/25-001/25

Sample Received By: Care Labs Representative (Kalpana)

Sample Registration Date: 19.08.2025
Analysis Completed Date: 23.08.2025
Sampling Procedure: CL/HYD/CHE/SOP/SK/30

TEST RESULTS

S.No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	CPCB STANDARDS
1.	Diameter of Stack	--	m	1.0	--
2.	Cross Sectional Area	--	m ²	0.785	--
3.	Flue Gas Temperature	--	°C	124	--
4.	Velocity	--	m/sec	3.80	--
5.	Flow rate	--	m ³ /hr	10.863	--
6.	Particulate Matter	IS 11255 (Part 1)-1985	mg/Nm ³	20.46	< 115

Instrument Details: -

Instrument : Stack Monitoring Kit
Make : Aero-Vironment
Model / SI No : SEAC 90 With DGM/ 60307
Calibration Due : 14.02.2026

Reviewed by
J. Sushma
(J. Sushma)



Authorized Signatory

P. Mamatha
(P. Mamatha)
Technical Manager

TEST REPORT

ISSUE TO:
M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date:23.08.2025

Sample Registration NO: 0941/08/25	Sample Registration Date: 19.08.2025
Sample Collection Date: 18.08.2025	Lab Ref: CL/ENV/NM/0941/08/25-001/25
Sample Particulars: NOISE LEVELS	Sampling Procedure: CL/HYD/CHE/SOP/NM/30
Sample Received By: Care Labs Representative (Kalpana)	

TEST RESULTS

S. No	LOCATIONS	NOISE LEVELS In dB (A)	CPCB STANDARDS
1.	Main Gate Security	73.4	< 75
2.	Utility Block	67.5	< 75
3.	Production Block	49.7	< 75
4.	Boiler Area	61.6	< 75
5.	DG Set Area	59.2	< 75

Instrument Details: -

Instrument : Sound Level Meter
Model / SI No : SL-4035SD/Q672909 (0.1db)
Make : Lutron
Calibration Due : 14.02.2026

Reviewed by
J. Sushma
(J. Sushma)



P. Mamatha
Authorized Signatory
(P. Mamatha)
Technical Manager

TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date: 23.08.2025

Sample Registration No: 0941/08/25

Sample Collection Date: 18.08.2025

Sample Registration Date: 19.08.2025

Sample Particulars: ILLUMINATION LEVELS

Lab Ref: CL/ENV/LUX/0941/08/25-001/25

Sample Received By: Care Labs Representative (Kalpana)

Sampling Procedure: CL/HYD/CHE/SOP/NM/30

TEST RESULTS

S.No	LOCATIONS	RESULTS (Lux)	IS: 6665-1972 STANDARDS(Min)
1.	Laboratory	346	300
2.	Production Block – I	460	450
3.	Production Block – II	454	450
4.	Production Block - III	450	450
5.	Raw Material Stores	264	200

Note: IS- Indian Standards.

Instrument Details: -

Instrument : Digital Lux Meter
S. No/Model No : Q951874/LX101A
Make : Lutron
Calibration Due : 14.02.2026

Reviewed by
J. Sushma
(J. Sushma)



Authorized Signatory
P. Mamatha
(P. Mamatha)
Technical Manager

TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andhra Pradesh.

Issue Date:23.08.2025

Sample Registration No: 0941/08/25
Sample Collection Date: 18.08.2025
Analysis Starting Date:19.08.2025
Sample Particulars: **STACK EMISSION**
Sampling location-02: **DG Set – 1-500 KVA**
Sample Received By: Care Labs Representative (Kalpana) Sampling Procedure: CL/HYD/CHE/SOP/SK/30

Sample Registration Date: 19.08.2025
Analysis Completed Date: 23.08.2025
Lab Ref: CL/ENV/SK/0941/08/25-002/25

TEST RESULTS

Diameter of Stack (m) : 0.2
Cross Sectional Area (m²) : 0.0314
Flue Gas Temperature (°C) : 152
Velocity (m/sec) : 12.40
Flow Rate (m³/hr) : 1,402

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	G.S.R. 771 (E)Dated 11 th December 2013 STANDARDS
1.	Particulate Matter (PM)	IS 11255 (Part 1)-2019	g/kw hr	0.2	≤ 0.2
2.	Carbon Monoxide (CO)	CPCB Guidelines	g/kw hr	1.6	≤ 3.5
3.	Hydro Carbon (HC)	CPCB Guidelines	g/kw hr	0.8	≤ 4.0
4.	Oxides of Nitrogen (NO _x)	IS 11255 (Part 7)-2017	g/kw hr	0.3	≤ 4.0

Instrument Details: -

Instrument : Stack Monitoring Kit
Make : Lata Envirotech
Model / SI No : APM/180/40-DTB-2014
Calibration Due : 14.02.2026

Reviewed by
J. Sushma
(J. Sushma)



Authorized Signatory
P. Mamatha
(P. Mamatha)
Technical Manager

TEST REPORT

ISSUE TO:
M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 23.08.2025

Sample Registration No: 0941/08/25
Sample Collection Date: 18.08.2025
Analysis Starting Date: 19.08.2025
Sample Particulars: STACK EMISSION
Sampling location-03: DG Set – 2- 750 KVA
Sample Received By: Care Labs Representative (Kalpana)
Sample Registration Date: 19.08.2025
Analysis Completed Date: 23.08.2025
Lab Ref: CL/ENV/SK/0941/08/25-003/25
Sampling Procedure: CL/HYD/CHE/SOP/SK/30

TEST RESULTS

Diameter of Stack (m) : 0.22
Cross Sectional Area (m²) : 0.0314
Flue Gas Temperature (°C) : 153
Velocity (m/sec) : 11.46
Flow Rate (m³/hr) : 1,295

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	G.S.R. 771 (E) Dated 11 th December 2013 STANDARDS
1.	Particulate Matter (PM)	IS 11255 (Part 1)-2019	g/kw hr	0.4	≤ 0.2
2.	Carbon Monoxide (CO)	CPCB Guidelines	g/kw hr	0.6	≤ 3.5
3.	Hydro Carbon (HC)	CPCB Guidelines	g/kw hr	1.8	≤ 4.0
4.	Oxides of Nitrogen (NO _x)	IS 11255 (Part 7)-2017	g/kw hr	0.5	≤ 4.0

Instrument Details:-

Instrument : Stack Monitoring Kit
Make : Lata Envirotech
Model / SI No : APM/180/40-DTB-2014
Calibration Due : 14.02.2026

Checked By

Reviewed by
J. Sushma
(J. Sushma)



Authorized Signatory

P. Mamatha
Authorized Signatory
(P. Mamatha)
Technical Manager



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TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andhra Pradesh

Issue Date: 23.08.2025

Sample Registration No : 0941/08/25

Sample Collection Date: 18.08.2025

Sample Registration Date: 19.08.2025

Analysis Starting Date: 19.08.2025

Analysis Completion Date: 23.08.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-1:- (PB-I)

Lab Ref: CL/SF/0941/08/25-001/25

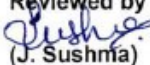
Sample Received By: Care Labs Representative (Kalpana)

TEST RESULTS

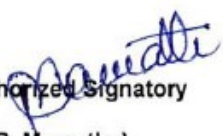
S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	2.0	<20

Checked By

Authorized Signatory

Reviewed by

(J. Sushma)




Authorized Signatory
(P. Mamatha)
Technical Manager



(Estd : 2005)

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TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 23.08.2025

Sample Registration No : 0941/08/25

Sample Collection Date: 18.08.2025

Analysis Starting Date: 19.08.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-2:- (PB-I)

Sample Received By: Care Labs Representative (Kalpana)

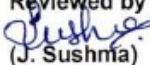
Sample Registration Date: 19.08.2025

Analysis Completion Date: 23.08.2025

Lab Ref: CL/SF/0941/08/25-002/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	2.4	<20

Reviewed by

(J. Sushmia)




Authorized Signatory

(P. Mamatha)
Technical Manager



(Estd : 2005)

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TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 23.08.2025

Sample Registration No : 0941/08/25

Sample Collection Date: 18.08.2025

Analysis Starting Date: 19.08.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-3:- (PB-II)

Sample Received By: Care Labs Representative (Kalpana)

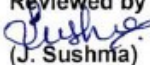
Sample Registration Date: 19.08.2025

Analysis Completion Date: 23.08.2025

Lab Ref: CL/SF/0941/08/25-003/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	3.2	<20

Reviewed by

(J. Sushma)




Authorized Signatory

(P. Mamatha)
Technical Manager



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TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 23.08.2025

Sample Registration No : 0941/08/25

Sample Collection Date: 18.08.2025

Analysis Starting Date: 19.08.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-4:- (PB-II)

Sample Received By: Care Labs Representative (Kalpana)

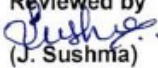
Sample Registration Date: 19.08.2025

Analysis Completion Date: 23.08.2025

Lab Ref: CL/SF/0941/08/25-004/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	3.6	<20

Reviewed by

(J. Sushma)




Authorized Signatory
(P. Mamatha)
Technical Manager



(Estd : 2005)

Recognized by Ministry of Environment Forest &
Climate Change, Govt. of India

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TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 23.08.2025

Sample Registration No : 0941/08/25

Sample Collection Date: 18.08.2025

Analysis Starting Date: 19.08.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-5:- (PB-III)

Sample Received By: Care Labs Representative (Kalpana)

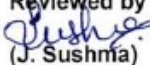
Sample Registration Date: 19.08.2025

Analysis Completion Date: 23.08.2025

Lab Ref: CL/SF/0941/08/25-005/25

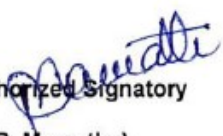
TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	2.4	<20

Reviewed by

(J. Sushma)



Authorized Signatory


(P. Mamatha)
Technical Manager



Recognized by Ministry of Environment Forest &
Climate Change, Govt. of India
An NABL Accredited Laboratory in Chemical & Biological Scope.TC - 12742.
Food Safety Standards Authority of India, Govt. of India
An ISO 45001 : 2018 Certified Laboratory

Corp. off. : # 3-11-482/2, Plot No.1, 3rd Floor,
Sai Sadan Complex, Shiva Ganga Colony,
L.B. Nagar, Hyd-500 074.
Branches : Vijayawada, Vizag & Bangalore
Office Contact : 9966375550
Mobile : 9347237845
E-mail : mail2carelabs@gmail.com
Web : www.carelabs.in

TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 23.08.2025

Sample Registration No : 0941/08/25

Sample Collection Date: 18.08.2025

Analysis Starting Date: 19.08.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-6:- (PB-III)

Sample Received By: Care Labs Representative (Kalpana)

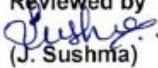
Sample Registration Date: 19.08.2025

Analysis Completion Date: 23.08.2025

Lab Ref: CL/SF/0941/08/25-006/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	3.0	<20

Reviewed by

(J. Sushma)




Authorized Signatory
(P. Mamatha)
Technical Manager

TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date: 21.09.2025

Sample Registration NO: 1264/09/25	
Sample Collection Date: 15.09.2025	Sample Registration Date: 16.09.2025
Analysis Starting Date: 16.09.2025	Analysis Completed Date: 21.09.2025
Sample Particulars: AMBIENT AIR QUALITY	
Sampling location-1: Main Gate Security	Lab Ref: CL/ENV/AAQ/1264/09/25-001/25
Sample Received By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/AAQ/30

TEST RESULTS

S.No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	NAAQ STANDARDS
1	Particulate Matter (PM _{2.5})	IS 5182 Part 24 -2019	µg/m ³	30.1	< 60
2	Particulate Matter (PM ₁₀)	IS 5182 Part 23 -2022	µg/m ³	54.6	< 100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -2022	µg/m ³	13.1	< 80
4	Oxides of Nitrogen (NO ₂)	IS 5182 Part 6-2022	µg/m ³	2.10	< 80
5	Acrylonitrile	Gas Chromatography	µg/m ³	< 0.01	--
6	HCL Concentration	Gas Chromatography	µg/m ³	< 0.01	--

NOTE: 1. NAAQS- National Ambient Air Quality Standards – CPCB: Industrial Area.

Instrument Details: -

Instrument : P.M 2.5/10 sampler

Model / SI No : AAS-127/11-H-105

Make : Ecotech

Calibration Due : 14.02.2026

Reviewed by

(J. Sushma)



Authorized Signatory

(P. Mamatha)
Technical Manager

TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date: 21.09.2025

Sample Registration NO: 1264/09/25	Sample Registration Date: 16.09.2025
Sample Collection Date: 15.09.2025	Analysis Completed Date: 21.09.2025
Analysis Starting Date: 16.09.2025	
Sample Particulars: AMBIENT AIR QUALITY	
Sampling location-2: Power House	Lab Ref: CL/ENV/AAQ/1264/09/25-002/25
Sample Received By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/AAQ/30

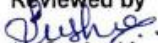
TEST RESULTS

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	NAAQ STANDARDS
1	Particulate Matter (PM _{2.5})	IS 5182 Part 24 -2019	µg/m ³	31.4	< 60
2	Particulate Matter (PM ₁₀)	IS 5182 Part 23 -2022	µg/m ³	46.3	< 100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -2022	µg/m ³	6.50	< 80
4	Oxides of Nitrogen (NO ₂)	IS 5182 Part 6-2022	µg/m ³	8.10	< 80
5	Acrylonitrile	Gas Chromatography	µg/m ³	< 0.01	--
6	HCL Concentration	Gas Chromatography	µg/m ³	< 0.02	--

NOTE: 1. NAAQS- National Ambient Air Quality Standards – CPCB: Industrial Area.

Instrument Details: -

Instrument : P.M 2.5/10 sampler
Model / SI No : AAS-127/11-J-2007
Make : Ecotech
Calibration Due : 14.02.2026

Reviewed by

(J. Sushma)




Authorized Signatory
(P. Mamatha)
Technical Manager

TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date: 21.09.2025

Sample Registration NO:1264/09/25	Sample Registration Date: 16.09.2025
Sample Collection Date: 15.09.2025	Analysis Completed Date:21.09.2025
Analysis Starting Date: 16.09.2025	
Sample Particulars: AMBIENT AIR QUALITY	
Sampling location-3: ETP Plant	Lab Ref: CL/ENV/AAQ/1264/09/25-003/25
Sample Received By: Care Labs Representative (Kalpana)	Sampling Procedure: CL/HYD/CHE/SOP/AAQ/30

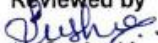
TEST RESULTS

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	NAAQ STANDARDS
1	Particulate Matter (PM _{2.5})	IS 5182 Part 24 -2019	µg/m ³	23.6	< 60
2	Particulate Matter(PM ₁₀)	IS 5182 Part 23 -2022	µg/m ³	44.1	< 100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -2022	µg/m ³	9.80	< 80
4	Oxides of Nitrogen (NO ₂)	IS 5182 Part 6-2022	µg/m ³	19.6	< 80
5	Acrylonitrile	Gas Chromatography	µg/m ³	< 0.01	--
6	HCL Concentration	Gas Chromatography	µg/m ³	< 0.01	--

NOTE: 1. NAAQS- National Ambient Air Quality Standards – CPCB: Industrial Area.

Instrument Details: -

Instrument : P.M 2.5/10 sampler
Model / SI No : AAS-127/11-J-2008
Make : Ecotech
Calibration Due : 14.02.2026

Reviewed by

(J. Sushma)




Authorized Signatory
(P. Mamatha)
Technical Manager

TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date: 21.09.2025

Sample Registration NO: 1264/09/25

Sample Collection Date: 15.09.2025

Analysis Starting Date: 16.09.2025

Sample Particulars: STACK EMISSION

Sampling location-1: Stack attached to the coal fired fluidized bed boiler-12TP Lab Ref: CL/ENV/SK/1264/09/25-001/25

Sample Received By: Care Labs Representative (Kalpana)

Sampling Procedure: CL/HYD/CHE/SOP/SK/30

Sample Registration Date: 16.09.2025

Analysis Completed Date: 21.09.2025

TEST RESULTS

S.No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	CPCB STANDARDS
1.	Diameter of Stack	--	m	1.0	--
2.	Cross Sectional Area	--	m ²	0.785	--
3.	Flue Gas Temperature	--	°C	130	--
4.	Velocity	--	m/sec	3.90	--
5.	Flow rate	--	m ³ /hr	11.021	--
6.	Particulate Matter	IS 11255 (Part 1)-1985	mg/Nm ³	22.10	< 115

Instrument Details: -

Instrument : Stack Monitoring Kit
Make : Aero-Vironment
Model / SI No : SEAC 90 With DGM/ 60307
Calibration Due : 14.02.2026

Reviewed by

(J. Sushma)



Authorized Signatory

(P. Mamatha)
Technical Manager

TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date:21.09.2025

Sample Registration NO: 1264/09/25	Sample Registration Date: 16.09.2025
Sample Collection Date: 15.09.2025	Lab Ref: CL/ENV/NM/1264/09/25-001/25
Sample Particulars: NOISE LEVELS	Sampling Procedure: CL/HYD/CHE/SOP/NM/30
Sample Received By: Care Labs Representative (Kalpana)	

TEST RESULTS

S. No	LOCATIONS	NOISE LEVELS In dB (A)	CPCB STANDARDS
1.	Main Gate Security	71.4	< 75
2.	Utility Block	69.3	< 75
3.	Production Block	52.8	< 75
4.	Boiler Area	60.5	< 75
5.	DG Set Area	56.8	< 75

Instrument Details: -

Instrument : Sound Level Meter
Model / SI No : SL-4035SD/Q672909 (0.1db)
Make : Lutron
Calibration Due : 14.02.2026

Reviewed by

(J. Sushma)



Authorized Signatory

(P. Mamatha)
Technical Manager

TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date: 21.09.2025

Sample Registration No: 1264/09/25	Sample Registration Date: 16.09.2025
Sample Collection Date: 15.09.2025	Lab Ref: CL/ENV/LUX/1264/09/25-001/25
Sample Particulars: ILLUMINATION LEVELS	Sampling Procedure: CL/HYD/CHE/SOP/NM/30
Sample Received By: Care Labs Representative (Kalpana)	

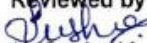
TEST RESULTS

S. No	LOCATIONS	RESULTS (Lux)	IS: 6665-1972 STANDARDS(Min)
1.	Laboratory	320	300
2.	Production Block – I	440	450
3.	Production Block – II	460	450
4.	Production Block - III	410	450
5.	Raw Material Stores	280	200

Note: IS- Indian Standards.

Instrument Details: -

Instrument : Digital Lux Meter
S. No/Model No : Q951874/LX101A
Make : Lutron
Calibration Due : 14.02.2026

Reviewed by

(J. Sushma)




Authorized Signatory

(P. Mamatha)
Technical Manager

TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andrapradesh.

Issue Date:21.09.2025

Sample Registration No: 1264/09/25	Sample Registration Date: 16.09.2025
Sample Collection Date: 15.09.2025	Analysis Completed Date: 21.09.2025
Analysis Starting Date: 16.09.2025	Lab Ref: CL/ENV/SK/1264/09/25-002/25
Sample Particulars: STACK EMISSION	Sampling Procedure: CL/HYD/CHE/SOP/SK/30
Sampling location-02: DG Set – 1-500 KVA	
Sample Received By: Care Labs Representative (Kalpana)	

TEST RESULTS

Diameter of Stack (m)	: 0.2
Cross Sectional Area (m ²)	: 0.0314
Flue Gas Temperature (°C)	: 160
Velocity (m/sec)	: 13.10
Flow Rate (m ³ /hr)	: 1,480

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	G.S.R. 771 (E)Dated 11 th December 2013 STANDARDS
1.	Particulate Matter (PM)	IS 11255 (Part 1)-2019	g/kw hr	0.2	≤ 0.2
2.	Carbon Monoxide (CO)	CPCB Guidelines	g/kw hr	1.3	≤ 3.5
3.	Hydro Carbon (HC)	CPCB Guidelines	g/kw hr	0.6	≤ 4.0
4.	Oxides of Nitrogen (NO _x)	IS 11255 (Part 7)-2017	g/kw hr	0.4	≤ 4.0

Instrument Details: -

Instrument : Stack Monitoring Kit
Make : Lata Envirotech
Model / SI No : APM/180/40-DTB-2014
Calibration Due : 14.02.2026

Reviewed by

(J. Sushma)




Authorized Signatory
(P. Mamatha)
Technical Manager

TEST REPORT

ISSUE TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 21.09.2025

Sample Registration No: 1264/09/25

Sample Collection Date: 15.09.2025

Analysis Starting Date: 16.09.2025

Sample Particulars: **STACK EMISSION**

Sampling location-03: **DG Set – 2- 750 KVA**

Sample Received By: Care Labs Representative (Kalpana) Sampling Procedure: CL/HYD/CHE/SOP/SK/30

Sample Registration Date: 16.09.2025

Analysis Completed Date: 21.09.2025

Lab Ref: CL/ENV/SK/1264/09/25-003/25

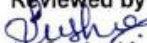
TEST RESULTS

Diameter of Stack (m) : 0.22
Cross Sectional Area (m²) : 0.0314
Flue Gas Temperature (°C) : 160
Velocity (m/sec) : 11.64
Flow Rate (m³/hr) : 1,315

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	G.S.R. 771 (E) Dated 11 th December 2013 STANDARDS
1.	Particulate Matter (PM)	IS 11255 (Part 1)-2019	g/kw hr	0.1	≤ 0.2
2.	Carbon Monoxide (CO)	CPCB Guidelines	g/kw hr	1.2	≤ 3.5
3.	Hydro Carbon (HC)	CPCB Guidelines	g/kw hr	2.1	≤ 4.0
4.	Oxides of Nitrogen (NO _x)	IS 11255 (Part 7)-2017	g/kw hr	0.4	≤ 4.0

Instrument Details:-

Instrument : Stack Monitoring Kit
Make : Lata Envirotech
Model / SI No : APM/180/40-DTB-2014
Calibration Due : 14.02.2026

Reviewed by

(J. Sushma)



Authorized Signatory

(P. Mamatha)
Technical Manager

TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andhra Pradesh.

Issue Date: 21.09.2025

Sample Registration No : 1264/09/25

Sample Collection Date: 15.09.2025

Analysis Starting Date: 16.09.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-1:- (PB-I)

Sample Received By: Care Labs Representative (Kalpana)

Sample Registration Date: 16.09.2025

Analysis Completion Date: 21.09.2025

Lab Ref: CL/SF/1264/09/25-001/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	2.1	<20

Reviewed by

(J. Sushma)



Authorized Signatory


(P. Mamatha)
Technical Manager

TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andhra Pradesh.

Issue Date: 21.09.2025

Sample Registration No : 1264/09/25

Sample Collection Date: 15.09.2025

Analysis Starting Date: 16.09.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-2:- (PB-I)

Sample Received By: Care Labs Representative (Kalpana)

Sample Registration Date: 16.09.2025

Analysis Completion Date: 21.09.2025

Lab Ref: CL/SF/1264/09/25-002/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	2.6	<20

Reviewed by

(J. Sushma)



Authorized Signatory

(P. Mamatha)
Technical Manager

TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andhra Pradesh.

Issue Date: 21.09.2025

Sample Registration No : 1264/09/25

Sample Collection Date: 15.09.2025

Analysis Starting Date: 16.09.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-3:- (PB-II)

Sample Received By: Care Labs Representative (Kalpana)

Sample Registration Date: 16.09.2025

Analysis Completion Date: 21.09.2025

Lab Ref: CL/SF/1264/09/25-003/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	3.1	<20

Reviewed by

(J. Sushma)



Authorized Signatory

(P. Mamatha)
Technical Manager

TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andhra Pradesh.

Issue Date: 21.09.2025

Sample Registration No : 1264/09/25

Sample Collection Date: 15.09.2025

Analysis Starting Date: 16.09.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-4:- (PB-II)

Sample Received By: Care Labs Representative (Kalpana)

Sample Registration Date: 16.09.2025

Analysis Completion Date: 21.09.2025

Lab Ref: CL/SF/1264/09/25-004/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	3.4	<20

Reviewed by

(J. Sushma)




Authorized Signatory

(P. Mamatha)
Technical Manager

TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 21.09.2025

Sample Registration No : 1264/09/25

Sample Collection Date: 15.09.2025

Analysis Starting Date: 16.09.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-5:- (PB-III)

Sample Received By: Care Labs Representative (Kalpana)

Sample Registration Date: 16.09.2025

Analysis Completion Date: 21.09.2025

Lab Ref: CL/SF/1264/09/25-005/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	2.1	<20

Reviewed by

(J. Sushma)



Authorized Signatory

(P. Mamatha)
Technical Manager

TEST REPORT

ISSUED TO:

M/s. Bhagiradha Chemicals & Industries Limited,
Ongole, Andra Pradesh.

Issue Date: 21.09.2025

Sample Registration No : 1264/09/25

Sample Collection Date: 15.09.2025

Analysis Starting Date: 16.09.2025

Sample Particulars: Scrubber Fumes Monitoring

Sampling Location: Scrubber-6:- (PB-III)

Sample Received By: Care Labs Representative (Kalpana)

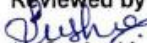
Sample Registration Date: 16.09.2025

Analysis Completion Date: 21.09.2025

Lab Ref: CL/SF/1264/09/25-006/25

TEST RESULTS

S.NO	PARAMETERS	UNITS	RESULTS	STANDARDS
1.	Acid Mist (HCL Vapour)	mg/nm ³	3.5	<20

Reviewed by

(J. Sushma)



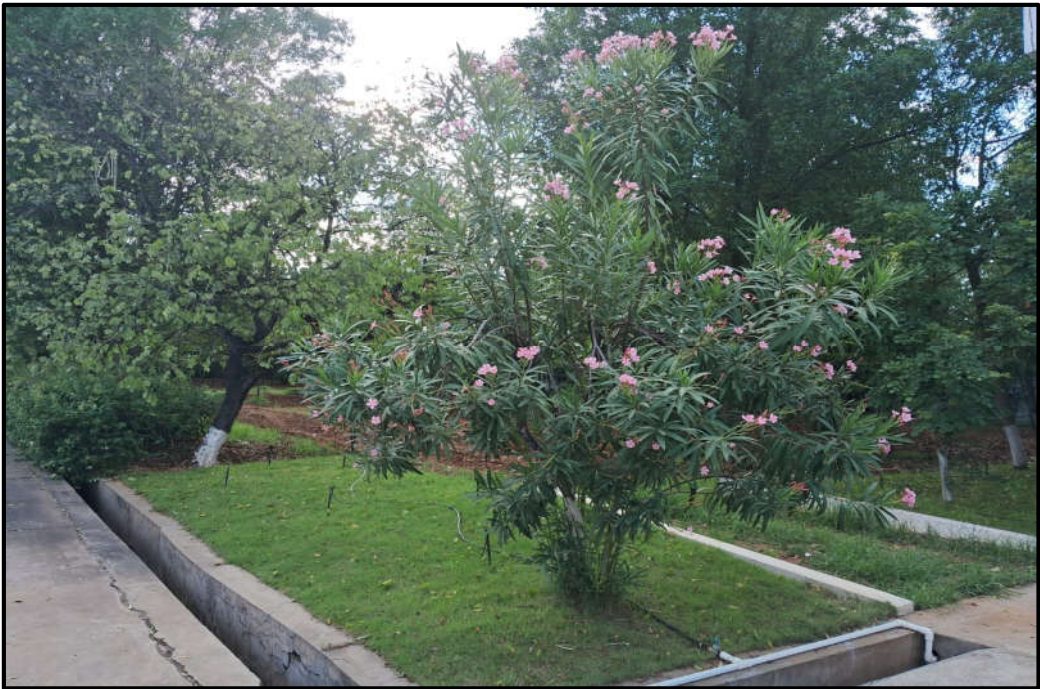

Authorized Signatory
(P. Mamatha)
Technical Manager

Annexure-6
Photographs

Green belt Photographs















Newspaper Advertisement copy


BHAGIRADHA CHEMICALS & INDUSTRIES LIMITED
 Regd. Off : 8-2-269/S/3/A, Plot No-3, Sagar Society,
 Road No. 2, Banjara Hills, Hyderabad - 500 034
 Factory : Yerajarla Road, Cheruvukommupalem,
 Ongole Mandal, Prakasam District, Andhra Pradesh

NOTICE

This is to inform that Bhagiradha Chemicals & Industries Ltd., Cheruvukommupalem Village, Ongole Mandal, Prakasam District, Andhra Pradesh has been accorded environmental clearance by the Government of India, Ministry of Environment and Forests for the expansion of its pesticide unit from 3200 TPA to 3250 TPA capacity. Copy of the clearance letter is available with the Andhra Pradesh Pollution Control Board and may also be seen at the website of the Ministry of Environment and Forests at <http://www.envfor.nic.in>.

For Bhagiradha Chemicals & Industries Ltd.
 Sd/-
 Place: Ongole S. Koteswara Rao
 Date: 27-10-2008 Managing Director


భగీరథ కెమికల్స్ & ఇండస్ట్రీస్ లిమిటెడ్
 కార్యాలయం: 8-2-269/ఎన్/3/ఎ, ప్లాట్ నెం. 3,
 సాగర్ సొసైటీ, రోడ్ నెం. 2, బంజారా హిల్స్, హైదరాబాద్ - 500 034
 ఫ్యాక్టరీ: యరజర్లా రోడ్, చెరువుకొమ్మపాలెం, ఒంగోలు మండలం,
 ప్రకాశం జిల్లా, ఆంధ్రప్రదేశ్

ప్రకటన

భగీరథ కెమికల్స్ లిమిటెడ్ ఇండస్ట్రీస్ లిమిటెడ్, ఒంగోలు మండలం, చెరువుకొమ్మపాలెం (యరజర్లా రోడ్) నందు పెన్సిలెట్ ప్లాంట్ సర్కావన సామర్థ్యము 3200 టీపిఎ నుండి 3250 టీపిఎ పెంచుటకు భారత ప్రభుత్వ పర్యావరణ మరియు అటవీ మంత్రిత్వ శాఖ నుండి ఎన్వైరాన్మెంటల్ క్లీయరెన్సు మంజూరు చేయబడినది. ఎడరు వెబ్ సైటును www.envfor.nic.in నియంత్రణ మండలి వద్ద గాని భారత ప్రభుత్వ పర్యావరణ మరియు అటవీ మంత్రిత్వ శాఖ website లవగా <http://www.envfor.nic.in> లో గాని లభించును.

ఇట్లు
 భగీరథ కెమికల్స్ & ఇండస్ట్రీస్ లిమిటెడ్ కార్య
 ాలయం: ఒంగోలు (పం) యన్. కోటేశ్వరరావు
 తేదీ: 27-10-2008 మేనేజింగ్ డైరెక్టర్