



Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment
Authority(SEIAA), Andhra Pradesh)

To,

The CompanySecretary
THE ANDHRA SUGARS LIMITED
The Andhra Sugars Limited, Venkatarayapuram Industrial Area
Township, Tanuku Mandal, Andhra Pradesh -534215

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity
under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC)
in respect of project submitted to the SEIAA vide proposal number
SIA/AP/IND2/202216/2021 dated 18 May 2021. The particulars of the environmental
clearance granted to the project are as below.

- | | |
|---|--|
| 1. EC Identification No. | EC22B013AP162981 |
| 2. File No. | AP VSP IND 5 2021 3212 |
| 3. Project Type | Expansion |
| 4. Category | B2 |
| 5. Project/Activity including Schedule No. | 4(d) Chlor-alkali industry |
| 6. Name of Project | Establishment of Chlor Alkali and synthetic organics manufacturing units in existing/consented sodium hypochlorite (15%) manufacturing facility of area 42.28 acres by The Andhra Sugars Limited |
| 7. Name of Company/Organization | THE ANDHRA SUGARS LIMITED |
| 8. Location of Project | Andhra Pradesh |
| 9. TOR Date | N/A |

The project details along with terms and conditions are appended herewith from page
no 2 onwards.

Date: 27/05/2022

(e-signed)
DR. P.V.CHALAPATHI RAO
Member Secretary
SEIAA - (Andhra Pradesh)

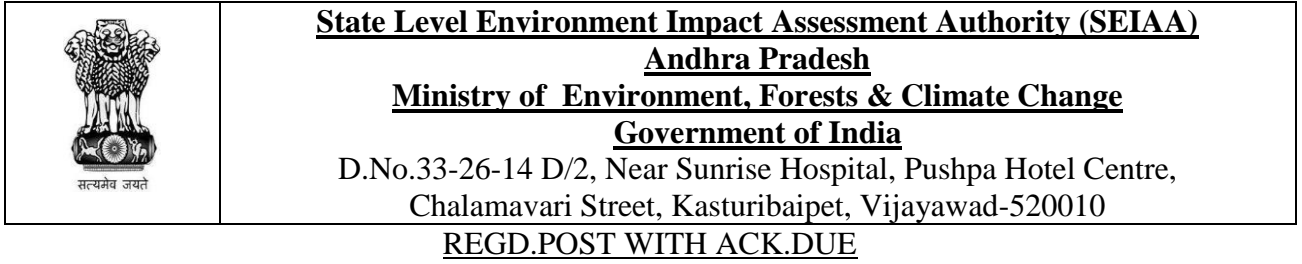
*Note: A valid environmental clearance shall be one that has EC identification
number & E-Sign generated from PARIVESH. Please quote identification
number in all future correspondence.*

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and Virtuous Environmental Single-Window Hub)





Order No. SEIAA/AP/VSP/IND/05/2021/3212/185.35/182.31

Sub: SEIAA, A.P. – M/s. The Andhra Sugars Limited at Plot No. 20, Jawaharlal Nehru Pharmacy, Parawada Village & Mandal, Visakhapatnam District, Andhra Pradesh - Environmental Clearance - Issued - Reg.

- I. This has reference to your EC application submitted through online on 18.05.2021 (SIA/AP/IND2/202216/2021), seeking Environmental Clearance for Establishment of Chlor-Alkali and Synthetic Organic chemicals at **Plot No. 20, Jawaharlal Nehru Pharmacy, Parawada Village & Mandal, Visakhapatnam District** in favour of **M/s. The Andhra Sugars Limited**. The nearest human habitation viz., Tanam (V) exists at a distance of about 1.5 Km from the mine lease area. The total area of the site is 42.28 Acres. The total cost of the project is Rs.300.0 Crores. The details of the production capacities of the project is as follows:

List of products and Quantities:

| S.No. | Description | Capacity |
|---------------------|----------------------------------|----------|
| CHLOR-ALKALI | | |
| 1 | Caustic Soda (100%) Lye/Flakes | 245 TPD |
| 2 | Caustic Potash (100%) Lye/Flakes | 50 TPD |
| 3 | Liquid Chlorine | 249 TPD |
| 4 | Hydrochloric Acid (33%) | 600 TPD |
| 5 | Hydrogen Gas | 7.1 TPD |

This proposal has been referred to SEAC, A.P along with all the documents submitted by the proponent for their appraisal and for their specific recommendations on EC aspect. The proposal has been examined and processed in accordance with EIA Notification, 2006 and its amendments thereof. The State Level Expert Appraisal Committee (SEAC) examined the application in its meetings held on **28.04.2022**. The Proposal of M/s. The Andhra Sugars Limited., is for Environmental Clearance for **Chlor-Alkali Industry**. Ministry of Environment and Forests, issued notification vide S.O. 1533, September 14, 2006, Chlor-Alkali manufacturing activity. The MoEFCC vide letter J—13012/12/2013-IA-II (I) dated 24.12.2013 issued OM that, all Chlor Alkali industry with production capacity < 300 TPD and located within notified industrial area are categorized as B2 category. The project proponent and their Consultant, M/s. Team Labs and Consultants have attended the meeting. The Andhra Sugars Limited obtained consent for establishment (CFE) for manufacturing sodium hypochlorite (15%) from APPCB vide Letter No. 7645/PCB/ZO-VSP/Tech./2011-3074 dated 31.01.2012 and subsequently obtained consent for establishment (CFE) for Establishment of Chlor Alkali and synthetic organics manufacturing units vide CFE Order No.494/APPCB/CFE/RO-VSP/HO/2018 dated 09.07.2020 at Plot No.20, JN Pharma City, Parawada, Visakhapatnam District,

Andhra Pradesh. It is proposed to establish Chlor-Alkali manufacturing unit in existing/consented sodium hydrochlorite (15%) manufacturing facility).

List of Proposed Products and Quantities:

| Sl.No. | Description | Unit | Capacity |
|--------|-------------------------------------|------|----------|
| 1. | Caustic Soda (100%) Lye/Flakes | TPD | 245 |
| 2. | Caustic Potash (100%) Lye/Flakes | TPD | 50 |
| 3. | Liquid Chlorine | TPD | 249 |
| 4. | Hydrochloric Acid (33%) | TPD | 600 |
| 5. | Hydrogen Gas | TPD | 7.1 |

The proposed project falls under Item No. 4(d) – B2 category of the schedule of the EIA Notification 2006 – Chlor-alkali industry and OM No. J— 13012/12/2013-IA-II (I) dated 24.12.2013. The proposal was discussed in the SEAC 167.04 held on 28th September, 2021 and the Committee recommended to defer this proposal due to the committee noted that the Jawaharlal Nehru Pharmacy, Visakhapatnam obtained the Environmental Clearance from the MoEF&CC, GoI, New Delhi for entire Pharmacy to establish chemical, bulk drug and pharmaceutical industries but not obtained EC for Chlor-alkali Industry. The proponent proposed to establish Chlor-alkali Industry in the JN Pharmacy, Visakhapatnam. Hence, the JN Pharmacy, Visakhapatnam has to obtain amendment to the EC to establish Chlor-alkali units in JN Pharmacy, Visakhapatnam. The proponent submitted ADS reply through online on 25.02.2022. The Committee noted that the JNPC obtained the environmental clearance vide letter no. J.12011/1/2004-IA (CIE) dated 10.03.2005 under EIA notification 27.01.1994. The Industrial Estates were included as sectors mandating environmental clearance on July 7, 2004 vide S.O. 801 (E), MoEFCC as an amendment to EIA notification dated 27.01.1994. Accordingly JNPC obtained EC for the industrial estate project mentioning chemicals, bulk drugs and pharmaceuticals, and the same incorporates all chemicals both inorganic and organic chemicals as mentioned in Schedule I of EIA notification 27.01.1994. Chlor-alkali was mentioned under Sl.No. 14 of schedule I of EIA Notification 1994. The Committee after examining the project proposals, presentations and deliberations recommended for issue of **Environmental Clearance**. The committee in the appraisal report clearly stated that they have approved the Form-I/II, PFR/DPR and EMP for compliance by the proponent. The State Level Environment Impact Assessment Authority (SEIAA), in its meeting held on **11.05.2022** examined the proposal and the recommendations of SEAC and decided to accept SEAC recommendations aforesaid for strict compliance by the proponent and to issue EC. The SEIAA, A.P hereby accords **Environmental Clearance to the project** as mentioned at Para No. I under the provisions of the EIA Notification 2006 and its subsequent amendments issued under Environment (Protection) Act, 1986 subject to implementation of the following specific and general conditions:

III a Part A. Special Conditions:

1. The proposal shall not attract the following Acts & Rules:
 - a. Forest Act 1980,
 - b. Wild life (Protection) Act,1972;
 - c. CRZ Notification, 2011;
 - d. The Eco sensitive areas as notified under Environment (Protection) Act,1986;
 - e. Critically polluted areas as notified by CPCB and also shall not harm live stocks and human beings and disturb their activities.

2. The industry shall segregate effluents into different streams i.e. High TDS and High COD, High COD and Low TDS, Low COD and High TDS, Low COD and Low TDS in case of the industry sending the effluent to CETP.
3. The industry shall implement monitoring of waste factors for different streams of effluent and solid waste.
4. The industry shall establish suitable scrubbing system in consultation with the APPCB.
5. The industry shall provide effective solvent recovery system.
6. The industry shall provide hazardous waste container (drums) cleaning/washing system (Container detoxification).
7. The industry shall provide flow meter to measure quantity of steam consumed for MEE system.
8. The industry shall provide magnetic tamper proof flow meters to measure quantity of different streams of effluents generated and routed through the treatment systems.
9. The industry shall provide steam stripping system to handle volatile matter in the effluents.
10. The industry shall send hazardous waste to the authorized cement industries/ TSDF/ authorized recyclers by properly maintaining the system.

Part B. Specific Conditions:

1) Air & Noise Environment:

1. The emissions from the Husk / Coal Fired Boilers of capacity – 2 x 15 TPH shall be routed through cyclones separator followed by bag filters with the stack type and height fixed in consultation with the APPCB. Adequate stack height shall be provided for D.G. Sets 3 x 1250 KVA as per CPCB norms.
2. If the process emissions containing the HBr, HCl, NH₃, HF, H₂S and Mercaptans shall be routed through two stages scrubber system. The packing media in the scrubber is 25 mm poly propylene rings. Scrubbed liquid shall be treated and reused or subjected to MEE.
3. Strict measures shall be taken to control odour with appropriate odour abatement methods. Sub coolers for brine circulation shall be installed to reduce solvent evaporation losses into the atmosphere. All the solvent storage tanks shall be connected to vent condensers with chilled water circulation to minimize the solvent loss. The proponent shall install VOC meter in the plant to monitor
4. The solvents shall be recovered by installing fractional distillation columns. The recovered solvents shall be reused in the process or sold to recyclers authorized by APPCB. The volatile vapours generated during process shall be routed through condensers and the condensate shall be reused in the plant.
5. The area of the greenbelt shall not be less than 33% of the total area of the site. Greenbelt with tall growing trees shall be developed along the boundary of the site.
6. Fugitive emissions from storage tanks shall be avoided by providing air condensers.
7. The proponent should provide appropriate PPE to the persons working in the unit and suitable to their work place environment.
8. The proponent shall establish adequate number of air monitoring stations, including one

online station, in consultation with the APPCB and take appropriate measures to ensure that the GLC shall comply with the NAAQM norms notified by MoEF&CC, GoI on 16.11.2009.

- Measures shall be taken to comply with the provisions made under “Noise pollution (Regulation and control) amendment rules 2010 dated 11-01-2010 issued by MoEF.

Water Environment:

- The total water requirement shall not exceed **3156 KLD**, which includes for Process and washings – 1090 KLD, Cooling Towers - 1795 KLD, Boiler Blow down – 121 KLD, DM Plant Registration - 100 KLD and Domestic use – 50 KLD.

Waste water generation:

- The total waste water generation is **544 KLD**, Out of that; Process & Washings - 60 KLD; Cooling Towers blow down - 330 KLD; Boiler blow down - 14 KLD, DM Plant Regeneration - 100 KLD; Domestic - 40 KLD. The effluents after pre-treatment at plant premises shall be sent to CETP of M/s. Ramky Pharmacy for further treatment and disposal. The domestic waste water shall be disposed into the septic tank followed by soak pit.
- The proponent shall provide separate storm water drains and harvest the rainwater from the rooftops to recharge the ground water.
- Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells in and around project area in consultation with the competent Ground Water Department. Data thus collected should be sent at regular intervals to MoEF&CC, CGWA and CGWB, Southern, Region, Hyderabad.
- Suitable conservation measures to augment groundwater resources in the area shall be planned and implemented in consultation with GWB. Suitable measures should be taken for rainwater harvesting.
- In case of Ground water usage, Permission from the competent authority should be obtained for drawl of ground water, if any, required for this project.

Solid Wastes:

- Hazardous waste generated from the industry such as organic residue, salts, spent solvents waste oils, used oils etc., shall be disposed as per the Hazardous and other Wastes (Management and Tran boundary movement) Rules, 2016 and its amendments thereof.
- The Hazardous / Solid waste and disposal:

| S.No. | Description | Quantity | Mode of Disposal |
|--------------|--------------------|-----------------|---|
| 1. | Sulphur sludge | 1 TPD | Shall be used as filler material in the process of SSP at Kovvur. (Or) shall be disposed at TSDF, Parawada, Visakhapatnam |

| | | | |
|-----|-------------------------------------|---------------|--|
| 2. | Spent V ₂ O ₅ | 1 TPA | To TSDF, Parawada, Visakhapatnam |
| 3. | ETP Sludge | 2 TPA | |
| 4. | Waste Oil | 5000 LPA | Shall be used in Heating Furnace with in the premises. |
| 5. | Brine sludge (dry basis) | 8 TPD | TSDF, Parawada for secured land filling. |
| 6. | Saturated mud (dry basis) | 0.5 TPD | |
| 7. | KCl brine sludge (dry basis) | 1.25 TPD | |
| 8. | Saturated mud (dry basis) | 0.1 TPD | |
| 9. | Used Batteries | 60 Nos/ annum | To Authorized Recyclers |
| 10. | Ash from Boilers | 5 TPD | Sold to brick manufacturers |

11. The Organic and Inorganic solid wastes, Spent Carbon, process residues shall be sent to the authorized users or recyclers approved by the APPCB.

12. The proponent should strictly comply with the E-Waste Management Rules, 2016, and report compliance.

Environment:

1. The Project Proponent shall ensure that the transportation activity of the unit should not cause any inconvenience to the public and comply with the local norms, if any;
2. The project shall implement the commitments, if any, made in the public hearing;

Part C: General Conditions:

1. **This order is valid for 7 years.**
2. No further expansion, increase in production; or change in product mix or technologies/land use shall be made without prior approval of the SEIAA.
3. The project proponent shall submit the copies of the Environmental Clearance to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
4. The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and SEIAA, A.P.
5. The Prior Environmental Clearance issued to this project along with the Approved Environmental Management Plan (EMP) and the Approved DPR should be uploaded in the project's web site and be made available in the public domain.
6. The PEC main contents be displayed on permanent boards at the main entry of the premises and at other prominent places.

7. The project proponent shall strictly adhere to its Environmental Policy approved by the SEIAA, and shall be made available in their web site.
8. A separate “Environmental Management Unit” (With a laboratory) shall be set up with all monitoring facilities.
9. A Separate Bank account need to be started for the budget allocated for the EMP and the amount committed should be deposited before the project obtains CFE/CFO as the case may be. The amounts allocated should not be diverted for any other purpose.
10. The funds earmarked for environmental protection measures (**Capital cost Rs.21.0 Crores & Recurring cost of Rs.8.75 Crores/annum**) should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Vijayawada.
11. The proponent before starting the operations, shall obtain all other mandatory clearances from respective departments, including the CFE and CFO from the APPCB.
12. The project proponent shall meticulously follow the Form-1/2 of the application; and approved EMP, for the purpose of all compliances.
13. Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.
14. Data on ambient air quality should be regularly submitted to the Ministry including its Regional Office located at Bangalore and the State Pollution Control Board/ Central Pollution Control Board once in six months.
15. The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken.
16. Personnel working in dusty/polluted areas should be provided with protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
17. Occupational health check up program for the workers should be undertaken periodically. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
18. The project proponent shall submit Half-yearly reports on the status of compliance of the stipulated Environmental Clearance Conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment & Forests, its Regional Office, Vijayawada, SEIAA, A.P., Zonal Office of Central Pollution Control Board,

Bangalore, and A.P. Pollution Control Board.

19. The proponent shall upload the status of compliance of the environmental clearance conditions including results of monitored data on their websites and shall update the same periodically.
20. Officials from the Regional Office of MoEF&CC, Vijayawada / The SEIAA, Andhra Pradesh through the Regional Offices of Andhra Pradesh Pollution Control Board, who would be monitoring the implementation of environmental safeguards, should be given full co-operation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents shall be submitted to the CCF, Regional Office to MoEF&CC, Vijayawada.
21. SEIAA also reserves the right to cancel the EC issued at anytime, if EC has been obtained by the proponent through suppression of any information or furnishing false information upon which the project is appraised.
22. Concealing the factual data in the compliance reports, or failure to comply with any conditions mentioned above may result in withdrawal of the EC and attract action under the provisions of Environment (Protection) Act, 1986.
23. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further conditions from time to time, in the interest of environment protection.
24. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
25. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules

**MEMBER SECRETARY,
SEIAA, A.P.**

**MEMBER,
SEIAA, A.P.**

**CHAIRMAN,
SEIAA, A.P.**

To

Sri M. Palachandra, Company Secretary,
The Andhra Sugars Limited,
Venkatarayapuram Industrial Area Township,
Tanuku Mandal, Tanuku, West Godavari,
Andhra Pradesh-534215

Copy to:

1. The Chairman, SEAC, A.P. for kind information.
2. The Member Secretary, APPCB for kind information.
3. The EE, RO: Eluru, APPCB for information.
4. The Regional Officer, MoEF&CC, GOI, Vijayawada for kind information.
5. The Secretary, MoEF&CC, GOI New Delhi for kind information.
6. Monitoring cell, MoEF&CC, GOI, New Delhi for kind information.
7. The District Collector, West Godavari District, Andhra Pradesh for kind information.

