



Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

To,

The Whole Time Director Operations
M/S TAMILNADU PETROPRODUCTS LIMITED
M/s Tamilnadu Petroproducts Limited, Manali Express Highway, Manali,
Chennai,,Tiruvallur,Tamil Nadu-600068

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 Ministry vide proposal number IA/TN/IND2/280874/2021 dated 22 Aug 2022. The particulars of the environmental clearance granted to the project are as below.

- | | |
|--|---|
| 1. EC Identification No. | EC22A020TN136867 |
| 2. File No. | J-11011/469/2021-IA-II(I) |
| 3. Project Type | Expansion |
| 4. Category | A |
| 5. Project/Activity including Schedule No. | 5(e) Petrochemical based processing (processes other than cracking & |
| 6. Name of Project | Expansion of Linear Alkyl Benzene(LAB) Production from 1,20,000TPA to 1,45,000TPA within the existing LAB Plant |
| 7. Name of Company/Organization | M/S TAMILNADU PETROPRODUCTS LIMITED |
| 8. Location of Project | Tamil Nadu |
| 9. TOR Date | 27 Nov 2021 |

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

Date: 28/11/2022

(e-signed)
A N Singh
Scientist E
IA - (Industrial Projects - 2 sector)

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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PARIVESH

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Sub: Expansion of Linear Alkyl Benzene (LAB) Production from 1,20,000 TPA to 1,45,000 TPA within the Existing Lab Plant located at Manali industrial area, Tehsil Ambattur, District Thiruvallur, State Tamilnadu by M/s. Tamilnadu Petroproducts limited- Consideration of Environment Clearance reg. -

Sir,

This has reference to your online proposal no. IA/TN/IND2/280874/2021, dated 22nd August, 2022 for environmental clearance to the above-mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal seeking environmental clearance for expansion of Linear Alkyl Benzene (LAB) Production from 1,20,000 TPA to 1,45,000 TPA within the Existing LAB Plant located at Manali industrial area, Tehsil Ambattur, District Thiruvallur, State Tamilnadu by M/s. Tamilnadu Petroproducts limited.

3. All Products are listed at S.No.5(e) of Schedule of Environmental Impact Assessment (EIA) Notification 2006 and its Amendments under Category 'B' – Petrochemical based processing (processes other than cracking & reformation and not covered under the complexes). Due to applicability of general condition (Critically Polluted areas as identified by the Central Pollution Control Board from time to time), appraisal will be done at central level as Category "A".

4. The details of products and capacity as under:

S.No	Unit	Product/ By-product	Existing Quantity	Proposed Quantity	Total Quantity
1	LAB Production unit	Linear Alkyl Benzene	1,20,000	25,000	1,45,000
2	LAB Production unit	Heavy Normal Paraffin	12,000	-	12,000
3	LAB Production unit	Heavy Alkylate	20,004	-	20,004
4	NPN Production Unit	N-Paraffin	94,099	-	94,099

5. Existing industry is operational on the basis of Consent to Operate, because EC was not applicable, when the then project was commissioned in 1987. Hence, EC was not obtained for the existing plant. Latest CTO (water) from TNPCB under Water Act vide. No.2208143451801 has been issued on 12.07.2022 and is valid up to 31.03.2024. Latest CTO (air) from TNPCB under Air Act vide No. 2208243451801 dated 12.07.2022 and is valid up to 31.03.2024. Certified CTO

compliance report dated 05.07.2022 has been issued by TNPCB.

6. Standard Terms of Reference have been obtained vide F. No J-11011/469/2021-IA-II(I), dated 27.12.2021. It was informed that litigation is pending against the Project proponent. Details are as follows:

- (i) Case no: 256 of 2020 (SZ) is in progress. The referred case is a Suo-Moto case taken up by NGT (SZ) on 15.12.2020, based on the original article of Chennai Climate Action Group (CCAG) published in News Desk magazine dated 11-11-2020. Air Pollution and Industries, "These six Industries in North Chennai are polluting the air for more Than half the year, The North Chennai Thermal Power Station along Ennore Port." - Order dated 15.12.2020. The Hon'ble NGT appointed a Joint Committee and they carried out inspection & sampling during Feb 2021. There were no findings unfavorable to the PP. Counter affidavit was filed before the Hon'ble NGT, with justifications for no exceedance in emissions and requested to discharge the PP from this case on 23-07-2021. No final / interim order given. Last heard on 23.08.2022 and next hearing was scheduled on 13.09.2022.
- (ii)** TNPCB Direction – 1 : A direction was issued by TNPCB, imposing an interim environmental compensation of Rs 100 Lacs, based on NGT order OA 1038/2018, for non-compliance. PP has requested TNPCB to waive the interim environmental compensation levied and to withdraw the order. The above notice was issued to all industries which are present in the identified Polluted Industrial Areas (PIA). However, Hon'ble Supreme Court has issued order staying the compensation levied, vide Civil Appeal Diary No. 19271/2020. Based on the above stay order, MoEF&CC has issued an O.M. vide reference F. No. 22-23/2018-IA.III dated 28-01-2021, keeping in abeyance the two earlier issued OMs vide reference F. No. 22-23/2018-IA.III dated 31-10-2019 & 30-12-2019. Abeyance imposed vide OM dated 28.01.2021 was lifted by MOEFCC vide OM dated 05.07.2022. Reply yet to receive from TNPCB.
- (iii)** **TNPCB Direction- 2:** A Notification was issued by TNPCB vide reference TNPCB/DD (L)/02151/2019 dated 20-10-2021 regarding Retrofitting of Emission Control Device in DG sets with capacity up to 800 kW, to reduce PM. PP has 3 nos. of HFO based Generator sets with a total generation capacity of 15 MW (1 No of 3 MW DG & 2 Nos of 6 MW DG), to meet the Electric power demand for sustained operation of plant. Of the referred 3 Nos of DG sets, any two will be in continuous operation and the third DG will be on standby.

PP has already released Purchase order to replace 2 Nos (1 No of 3MW & 1 No of 6 MW) of the above HFO based DG sets with 2 Nos of 7 MW each LNG based Gas Engines during this Financial year 2022-23. PP is also committing to replace the remaining 1 No of HFO based 6 MW DG set with a Gas Engine during FY 2024-25.

7. The Proposed project being located in notified Manali Industrial Area, Public Hearing is exempted under the provisions as per para 7 III stage (3) (b) of the EIA notification, 2006.

8. Total existing land area is 16.1874 Ha. No additional land will be required as proposed expansion will be carried out within existing premises. The Existing Green belt within the site is 0.83 Ha (5.125%) and the proposed Green belt within site is 0.65 Ha (4%). Remaining greenbelt will be developed outside the premises at a distance of 0.36 km in NE direction from the project site in an area of 7.28 Ha (45%). Thus, the Total Greenbelt (GB) area is 8.76 Ha, which is 54.12% of total land area (16.1874 Ha). The estimated project cost for proposed expansion is Rs. 240 Crores. Capital cost under EMP is Rs.11.60 Crores and recurring cost is Rs.0.84 Crores per annum. PP proposes to allocate Rs. 3.6 Crores towards extended EMP (under Corporate Environment Responsibility). Total Employment (both Direct & Indirect) post expansion will be 548 persons.

9. PP has reported that there are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance of Project site. There is no Reserve Forest, Eco-sensitive zone, Schedule-1 species within 10km buffer of Project site. Water Bodies: Buckingham Canal, a navigation canal, is at a distance of 0.96 km in East direction. Periyathoppu Lake is at a distance of 2.55 in West direction, Lake near Sekkadu is at a distance of 2.82 in WSW direction, Bay of Bengal is at a distance of 3.16 in ESE, Kadapakkam Lake is at a distance of 3.57 in NW direction, Kodungaiyur Canal is at a distance of 4.41 in SSW direction, Captain Cotton Canal is at a distance of 5 km in SSW direction, Madavaram Eri/Retteri Lake is at a distance of 6.88 km in WSW direction, Ennur Creek is at a distance of 7.03 in NE direction. A surplus channel carrying surplus water from Red Hills reservoir (a major reservoir for Chennai Drinking water source) is running nearly 288 meters away from the proposed project site on the northern side beyond the Manali Express Highway. This Red hill surplus channel confluence into the Kosasthalaiyar river located nearly 1.85 kms from the proposed project site. A Flood Plain Zone Certification has been obtained from WRD, Kosasthalaiyar Basin Division, Thiruvallur vide letter no.DB.JDO.2/F.40 NOC/2022/671-1M dated 02.08.2022, evidencing the above distance of Red Hills surplus channel & Kosasthalaiyar river from proposed Project site.

LAB plant and the proposed expansion site located within LAB Plant falls entirely outside CRZ area as per approved CZMP(TN110) prepared as per CRZ Notification 2011 as reported by Anna University vide Report No. AU/IRS/MS/139-2022 dated 16.08.2022.

10. Ambient air quality monitoring was carried out at 8 locations during January 2022 to March 2022 and the baseline data indicates the ranges of concentration as: PM₁₀(46.0-75.9 µg/m³), PM_{2.5}(20.4-41.5µg/m³), SO₂(11.4-22.0 µg/m³) and NO₂(16.8-35.9µg/m³). AAQ modelling study for point source emissions indicates that the maximum total GLCs after the proposed project would be 76.22µg/m³, 41.5µg/m³, 22.36µg/m³ and 40.12µg/m³ with respect to PM₁₀, PM_{2.5}, SO₂ and NO_x, the resultant concentrations are well within the National Ambient Air Quality

Standards (NAAQS).

11. Total Fresh water requirement after expansion will be 1000 m³/day, which will be met by TTRO supply from CMWSSB. NOC has been obtained by TPL vide Agreement No.BW 313077 dated 11.09.2019. Existing Effluent generation is 145 m³/day which is treated through existing Effluent Treatment Plant of capacity 300 m³/day. Proposed additional Effluent generation will be 35 m³/day which will be treated through existing Effluent Treatment Plant of capacity 300 m³/day. Domestic waste water is being treated in existing STP of Capacity 160KLD. The plant is based on Zero Liquid discharge system and hence treated effluent water / will not be discharged outside the factory premises.

12. Total power requirement after expansion will be 10 MW, which will be sourced from existing co-generation power plant. Presently CPP comprises of 3 nos. (1 No of 3 MW DG & 2 Nos of 6 MW DG) of HFO based Generator sets with a total generation capacity of 15 MW, of which two DGs will be in operation & third in standby. Each of DG set is equipped with a stack height of more than 30 m for controlling the particulate emission within the statutory limit. PP has already released Purchase order to replace 2 Nos (1 No of 3MW & 1 No of 6 MW) of the above HFO based DG sets with 2 Nos of 7 MW each LNG based Gas Engines during this Financial year 2022-23. Hence, there will be no additional stacks installed for the Captive Power plant. A Emergency DG set of 1250 kVA is proposed to be installed for short duration operation only during power failure, which will be equipped with a 20m height stack as per CPCB norms. Existing unit has 2 Nos of 8 TPH LNG fired boilers, which is equipped with a common stack of height 30 m to control particulate emission within statutory limit. No additional boiler will be installed.

13. Details of Process emissions generation and its management:

Each of the proposed LNG based 2 Nos of DG set of 7 MW will be installed with stack of height 30 m and 1.2 m dia, replacing the 2 nos of 30m tall stacks of 2 Nos of existing HFO based DG sets. The expected emissions from each of stack are estimated to be with PM(0.059 g/s), SO₂(0.2122g/s), NO_x(2.23228g/s) and CO(0.8752g/s). Proposed Emergency DG set 1250 KVA will be installed with stack height of 20 m and 0.6m dia. Expected emission is estimated to be with PM(0.1368g/s), SO₂(0.068g/s), NO_x(0.855g/s) and CO(0.239g/s).

Process emission management

- Low NO_x burners installed in all the Process fired heater and Boilers
- LNG is used as fuel in Process fired heaters and Boilers.
- Adequate stacks height provided for better dispersion of flue gases.
- Online monitoring of SO_x, NO_x, CO and PM emissions from furnaces/boilers.
- Monitoring of ambient air quality as per MoEF&CC standards
- Installation of internal floating roof with double seals in all Class-A tanks for reduction of fugitive emissions.

- Provision of mechanical seals in all the hydrocarbon pumps for reduction of fugitive emissions.
- Benzene storage tank is provided with Nitrogen blanketing
- LDAR surveys done periodically

14. Details of solid waste/Hazardous waste generation and its management:

a) Solid waste generation:

(i) Organic waste

The existing organic waste generation is 119.88 kg/day and proposed additional organic waste generation is estimated as 5.4 kg/day. Hence the total organic waste after expansion will be 125.28 kg/day. The organic waste generated is collected in bins and disposed to piggery farm unit.

(ii) Inorganic waste

The existing inorganic waste generation quantity is 79.92 kg/day and proposed additional inorganic waste generation is estimated as 3.6 kg/day. Hence the total inorganic waste after expansion will be 83.52 kg/day. The inorganic waste generation are collected stored in designated areas and disposed to TNPCB authorized recyclers.

b) Hazardous waste generation

HW generation & disposal as detailed below, will be in accordance with HWA Authorization No.22HFC30934995 dated 10/01/2022, which is valid till 31/03/2026

- Due to proposed project, additional ETP sludge of 5.0 MTPA will be generated. The total post expansion ETP sludge quantity of 30MTPA will be disposed to TSDF.
- Spent Pacol catalyst generation quantity of 20 MTPA will be disposed to reprocessing unit in USA
- Spent catalyst (Hydrobon & Molex) generation quantity of 154.8 MTPA (Occurs in frequency of once in 10 years) will be disposed to TSDF.
- Slop oil generation quantity of 1100 MTPA, will be recycled as fuel in Process fired heater.
- Used/Spent oil generation quantity of 10MTPA will be disposed to authorised recycler.
- Waste/Residues containing oil (oil Sludge) generation quantity of 10 MTPA will be disposed to TSDF.

- Waste / Residues containing oil (oil soaked cotton waste) generation quantity of 2.0 MTPA will be disposed to TSDF.
- Discarded empty containers generation quantity of 20 MTPA will be disposed to authorized recyclers
- Oil and sludge skimming residue generation quantity of 1.0 MTPA will be disposed to TSDF
- Calcium Fluoride sludge (S - II C4 - 51) generation quantity of 43.0 MTPA will be disposed to TSDF.

c) Solid and Hazardous waste management

- Main solid waste generation during construction phase will be construction debris like rubble, brick bats, debris, steel scrap, wooden scrap, sand, gravel etc. However, these materials are inert in nature and will not result into leaching of any substance or its constituent.
- These materials will be carefully sorted and will be used within premises for filling of low lying areas.
- Wooden scrap, steel scrap will be given to authorized scrap dealers.
- During construction, all the wastes will be stored at a designated site within the premises & upon completion of civil works, all debris will be removed from site to prevent scattered discharge on land.
- Hazardous waste materials will be properly disposed as per the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules 2016.

15. During deliberations, EAC discussed following issues:

- PP has not mentioned any single process vents and air pollution control equipment which has been installed with vents in EIA/EMP report. PP has submitted the details of existing process stacks in details and no process stacks are proposed under the expansion.
- 3D risk study shall be done including consideration of vertical components and submit to Ministry within 6 months. PP has note the same.
- Findings of the committee have been submitted regarding the court case. PP shall submit undertaking that there is no stay in the court order. PP has assured and submitted in form of undertaking that there is no stay order on them and next hearing is schedule on 20th October, 2022. Further, No interim or final order is given yet.
- PP shall commit to develop greenbelt within 1 year in 18 acres of land acquired additionally outside the plant premises. PP has committed the same.

The committee was satisfied with the response provided by PP on above information.

16. The proposal was considered by EAC (Ind-2) in its meeting held during 08th

September, 2022 and in EAC meeting (Meeting ID: IA/IND2/13348/10/10/2022) held on 10th October, 2022 in the Ministry, wherein the project proponent and their accredited Consultant namely M/s. Hubert Enviro Care Systems (p) Limited (NABET certificate no. NABET/EIA/1922/RA0172 and validity 13.10.2022), presented the case. The Committee **recommended** the project for grant of environmental clearance.

17. The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with the EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

18. The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data is within NAAQ standards. The Committee has deliberated the action plan proposed by the project proponent to arrest the incremental GLC due to the project. The Committee has also deliberated on the CER plan and found to be addressing the issues in the study area. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have **recommended** for grant of environmental clearance.

19. The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

20. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **expansion of Linear Alkyl Benzene (LAB) Production from 1,20,000 TPA to 1,45,000 TPA within the Existing Lab Plant located at Manali industrial area, Tehsil Ambattur, District Thiruvallur, State Tamilnadu by M/s. Tamilnadu Petroproducts limited**, under the provisions of the EIA Notification,

2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

A. Specific Condition:

- (i). EC will be subject to the decision of Hon'ble NGT (SZ). The project proponent shall abide by all orders and judicial pronouncements made from time to time in the case filed in Hon'ble NGT.
- (ii). The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (iii). NOC from the Central Ground Water Authority (CGWA)/ Concerned Local authority shall be obtained before start of the construction of plant and drawing of the ground water for the project activities, State Pollution Control Board / Pollution Control Committees shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission.
- (iv). As proposed, 2 Nos (1 No of 3MW & 1 No of 6 MW) of the above HFO based DG sets shall be replaced with 2 Nos of 7 MW each LNG based Gas Engines during this Financial year 2022-23. As committed, PP shall replace the remaining 1 No of HFO based 6 MW DG set with a Gas Engine within 1 year from the date of issue of EC.
- (v). Total fresh water requirement is 1000 m³/day which will be met from TTRO supply from CMWSSB. Necessary permission in this regard shall be obtained from the concerned regulatory authority. The project proponent will treat and reuse the treated water within the factory and no waste or treated water shall be discharged outside the premises.
- (vi). PP shall ensure that effluent shall be treated through existing Effluent Treatment Plant of capacity 300 m³/day. Domestic waste water is being/will be treated in existing STP of Capacity 160 KLD. The plant is being/will be based on Zero Liquid discharge system and hence treated effluent water / will not be discharged outside the factory premises.
- (vii). 3D risk study shall be done including consideration of vertical components and submit to IRO, MOEFCC within 6 months.
- (viii). Comprehensive water audit to be conducted on annual basis and report to the concerned Regional Office of MEF&CC. Outcome from the report to be implemented for conservation scheme.
- (ix). Process effluent/any wastewater shall not be allowed to mix with storm

water. Storm water drain shall be passed through guard pond.

- (x). Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer to be done through pumps.
- (xi). Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF. The ash from boiler shall be sold to brick manufacturers/cement industry.
- (xii). Regular VOC monitoring shall be done at vulnerable points.
- (xiii). The oily sludge shall be subjected to melting pit for oil recovery and the residue shall be bio-remediated. The sludge shall be stored in HDPE lined pit with proper leachate collection system.
- (xiv). Oil catchers/oil traps shall be provided at all possible locations in rain/storm water drainage system inside the factory premises.
- (xv). The company shall undertake waste minimization measures as below:
 - a) Metering and control of quantities of active ingredients to minimize waste.
 - b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - c) Use of automated filling to minimize spillage.
 - d) Use of Close Feed system into batch reactors.
 - e) Venting equipment through vapour recovery system.
 - f) Use of high pressure hoses for equipment cleaning etc. to reduce wastewater generation.
- (xvi). The green belt of 5-10 m width shall be developed in 8.76 Ha i.e. nearly 54.12% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Development of Green belt in the 18 Acre land area (at a distance of 0.36 km, NE from the project site) shall be done to compensate for the deficit Green Belt (30.875%) for LAB Project within 1 year. Status of development of greenbelt in this area shall be informed to the IRO, MOEFCC regularly.
- (xvii). As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent of Rs. 3.6 Crores to address the socio-economic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centers/ support in nearby village's schools, support in health care facilities, drinking water supply and funds for miscellaneous

activities like solar street lights, battery, solar panel etc., in the nearby villages. The action plan shall to be completed within time as proposed.

- (xviii). The project proponent shall ensure 70% of the employment to the local people, as per the applicable law. The project proponent shall set up a skill development centre/provide skill development training to village people.
- (xix). A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- (xx). The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.
- (xxi). Storage of raw materials shall be either in silos or in covered areas to prevent dust pollution and other fugitive emissions. All stockpiles should be constructed over impervious soil and garland drains with catch pits to trap runoff material shall be provided. All Internal roads shall be paved. Industrial vacuum cleaner shall be provided to sweep the internal roads. The Air Pollution Control System shall be interlocked with process plant/machinery for shutdown in case of operational failure of Air Pollution Control Equipment.
- (xxii). Continuous online (24x7) monitoring system for stack emissions/effluent shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (xxiii). PP to set up occupational health Centre for surveillance of the worker's health within and outside the plant on a regular basis. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (xxiv). The National Emission Standards for Petrochemical (Basic & Intermediates) issued by the Ministry vide G.S.R. 820 (E) dated 9th November, 2012 as amended time to time shall be followed.
- (xxv). Recommendations of mitigation measures from possible accident shall be implemented based on advanced risk Assessment studies conducted for worst case scenarios using latest techniques.
- (xxvi). PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use

Plastic in order to ensure the compliance of Notification published by MOEFCC on 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.

B. General Condition:

- (i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. 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/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (ii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
- (iii) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (iv) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (v) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.
- (vi) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (vii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including

results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.

- (viii) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
- (ix) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at <https://parivesh.nic.in/>. This shall be advertised within seven days from the date of issue of the clearance letter, at least 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 concerned Regional Office of the Ministry.
- (x) 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.
- (xi) This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

21. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

22. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

23. 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.

24. 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, the Hazardous

Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

25. This issues with the approval of the competent authority.

(A. N. Singh)
Scientist-'E'

Copy to: -

1. The Principal Secretary, Department of Environment, Ground Floor, Panagal Buildings 1, Jeenis Road, Saidapet, Chennai - 600 015.
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Integrated Regional Office, 1st and 2nd Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai-34
3. The Member Secretary, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. Member Secretary, Tamil Nadu Pollution Control Board, 76, Anna Salai, Guindy Industrial Estate, Race View Colony, Guindy, Chennai - 32 (Tamil Nadu)
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi
6. District Collector, Thiruvallur, Tamil Nadu
7. Guard File / Monitoring File / Parivesh Portal / Record File

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