



प्रगति के पथप्रदर्शक  
PIONEERS IN PROGRESS

# दि फर्टिलाइज़र्स एण्ड केमिकल्स ट्रावन्कोर लिमिटेड THE FERTILISERS AND CHEMICALS TRAVANCORE LTD.

(भारत सरकार का उद्यम) (A Government of India Enterprise)

पंजीकृत कार्यालय / Regd. Office: एलूर / Eloor, उद्योगमंडल / Udyogamandal, कोची / Kochi - 683501, केरल / Kerala, भारत / India  
दूरभाष / Phone: 0484 2567355, वेबसाइट / Website: www.fact.co.in, CIN: L24129KL1943GOI000371

COCHIN DIVISION, Ambalamedu-682303, Kochi, Kerala, Tel: 0484 2720902, Fax: 0484 2720948,  
(An ISO 9001:2015, 14001:2015 & 45001:2018 Certified Company)

GM-CD-

16.06.2025

The Research Assistant (Env)  
Ministry of Environment & Forests,  
Regional Office (South Zone), IVth Floor, E&F Wings,  
Kendriya Sadan, 17<sup>th</sup> Main Road, IInd Block, Koramangala,  
Bangalore- 560034.

Sub: Submission of Compliance Report reg.

Ref: E C No. J-11011/177/2011-I A, II(I) dt.21.2.2020

Sir/Madam,

With reference to the subject mentioned above, the Monitoring Performa Part – I regarding Environmental Clearance, vide reference, duly filled is attached herewith.

Kindly note that, the project is awarded to M/s Nuberg Engineering Ltd .Construction work is in progress. Half yearly Compliance Report along with supporting documents as per the EIA Notification (2006) is attached.

Thanking you,

Very truly yours,  
For FACT-Cochin Division

K.B. Biju  
General Manager(CD)-i/c

Encl: Monitoring Performa Part-I

Ministry of Environment & Forests  
Southern Regional Office, Bengaluru  
Monitoring Report  
PART-I

DATA SHEET

1. Project type : Expansion through Modernisation
2. Name of the Project : Expansion of Fertiliser Manufacturing Unit through Modernisation at FACT-CD, Ambalamedu, Kochi.
3. Clearance/Approval letter(s) No. & date : F.No.J-11011/177/2011-IA-II(I) dated 21.2.2020
4. Locations
  - a. District(s) : Ernakulam
  - b. State(s) : Kerala
  - c. Latitudes/Longitudes : Latitude: 09° 58' 33.2" °N  
Longitude: 76° 21' 49.9" °E
5. Address of Correspondence
  - a. Address of concerned Head of Organization (with pin code and Telephone/telex/fax numbers) Mob. nos: : K.B.Biju  
General Manager  
Fertilisers And Chemicals Travancore Ltd.-  
Cochin Division, Ambalamedu.P.O.  
Ernakulam, Kerala-682303  
Tel: 0484 2720902  
Fax: 0484 2720948  
Mob: 09846359970
  - b. Address of Head of project (with pin code and Telephone/telex/fax numbers) Mob. no: : K.B.Biju  
General Manager  
Fertilisers And Chemicals Travancore Ltd.-  
Cochin Division, Ambalamedu.P.O.  
Ernakulam, Kerala-682303  
Tel: 0484 2720902  
Fax: 0484 2720948  
Mob: 09846359970  
E-Mail ID: gmcd@factltd.com
6. Salient features
  - a. Of the project : Attached as Annexure -1
  - b. Of the environmental management plans : Attached as Annexure-2
7. Break up of the project areas (in ha)

Forest area	:	-
Non-forest area	:	0.40
<hr/> Total	:	<hr/> 0.40

8. Break up of the project affected population : Not applicable as the proposed site is inside the existing factory area.

	Number of oustees		
	Homestead	Land oustees	Landless/ Artisans
SC, ST/Adivasis Others	-		

9. Financial Details

- a. Project cost as originally planned and subsequent revised estimates and the years of price reference : Revised Cost Rs. 411.00 Crore
- b. Allocations made for environmental management plans, with item wise & year wise break up : Details of environment management plan will be submitted after finalizing the basic engineering package.
- c. Benefit cost ratio/internal rate of return & the year of assessment : IRR: 20.82 %, 2021
- d. Whether(c) includes the cost of environmental management as shown in (b) above : Yes
- e. Actual expenditure incurred on the environmental management plans so far : Project Expenditure EMP Expenditure  
- -

10. Status of construction

- a. Date of commencement (actual and/or planned) : 20.12.2021
- b. Date of completion (actual and/or planned) : 31.03.2026
- c. Date of commissioning : 31.03.2026

11. Project process details

Components	Dates of		
	Construction	Completion	Commissioning
1. Engineering and other project components			
2. Environmental Management and Pollution Control components			

Please attach a separate sheet, if required

Date: 16.06.2025

  
SIGNATURE

## Salient Features of the Project

Project	Capacity Enhancement of Complex Fertilizer Production Unit
Location	Ambalamedu, Cochin, Kerala
Type of Project	Expansion through Modernization
Total FACT Plant area	332 Acres (Plant Area) 234 Acres (Township area) 168 Acres (Reservoir area) 136 Acres (Area for future expansion)
Area allotted for expansion	5534.59 m <sup>2</sup>
Existing capacity (NP Plant)	3000 TPD (as per the earlier EC)
Capacity after expansion (NP Plant)	3650 TPD
Manufacturing Process	Slurry granulation process with Pipe Reactor

Ammonium Phosphate / Sulphate slurry is produced in the pre-neutraliser by reacting vapour/ liquid ammonia with Phosphoric acid, Sulphuric acid and scrubber slurry to the required mole ratio. The thick slurry from the pre-neutraliser is pumped to the granulator fitted with pipe reactor and sprayed over the recycled material. The recycled material is made up largely of undersized material, ground oversized material and product size material. Further ammoniation is carried out in the granulator using vapour ammonia to raise the mole ratio up to 1.80 to attain the product grade composition. The granulated product containing about 4 to 5% moisture is dried to 1% moisture in a co-current rotary drum dryer by means of hot air produced by combustion of fuel oil/RLNG. The dried product is elevated by means of a continuous discharge type bucket elevator and then distributed over four nos. of single deck derrick type vibrating screens by means of a drag flight conveyor. Product of the required size (4 to 2 mm) is separated in the screens from the oversize and the undersize materials. The oversize material is sent to the crushers for size reduction and the crushed material then flows by gravity to a drag flight type recycle conveyor. The undersize material from the screen (-2 mm) flows by gravity directly to the recycle conveyor and the product size material is cooled in the countercurrent rotary cooler before it is sent for bagging.

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## Salient Features of the of the Environmental Management Plans

Air pollution control facility	Location: NP plant, Process: Venturi Scrubbing Total emission through scrubbers : 4,00,000 m <sup>3</sup> /h
Effluent management facility	The process used for the production of complex fertilizer is a Zero Effluent Discharge Process. Hence, ETP is not required for the production of the complex fertilizer. During maintenance or cleaning of the proposed unit, the wastewater generated will be treated in already existing NP ETP. Location: NP Effluent Treatment Plant Process: Clariflocculation and Ammonia scrubbing for ETP Effluent. Capacity: 280 m <sup>3</sup> /h(ETP)
Solid waste management facility	Not Applicable. Solid waste will not be generated from the process.
Hazardous waste management facility	An agreement has been signed with Kerala Enviro Infrastructre Ltd (KEIL) for the final disposal of hazardous wastes generated.
Green belt area	The total area of FACT Cochin (Ambalamedu Division) has about 300 Acres of green cover. The proposed expansion area is only 5534.59 m <sup>2</sup> . A green belt is also proposed encircling the proposed plant expansion area.

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Specific Conditions	Status
(i) 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, shall be obtained from the State Pollution Control Board.	Consent to Establish from Kerala State Pollution Control Board is attached as <b>Annexure -1</b> .
(ii) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. The reuse of treated effluent in gardening/ horticulture shall not be considered as ZLD.	The New 1650 NPK plant is based on ZLD as guaranteed by the process licensor. The effluent generated in the plant (gravity flow in the trenches) is collected in sump pits and reused in the plant as process water
(iii) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.	Consent to Establish from Kerala State Pollution Control Board is attached as Annexure -1.
(iv) The gaseous emissions (SO <sub>2</sub> , NO <sub>x</sub> , NH <sub>3</sub> and HC) and particulate matter from various process units shall conform to the norms prescribed by the CPCB/SPCB from time to time. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack emissions shall be monitored regularly.	The emissions committed by process licensor are: Ammonia : ≤ 45 mg/nm <sup>3</sup> Particulate Matter : ≤ 45 mg/nm <sup>3</sup> Fluorine : ≤ 5 mg/nm <sup>3</sup> , within the limits of consent Stack emissions will be monitored regularly.
(v) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines. Fugitive emissions shall be controlled at 99.5% with effective chillers.	The new 1650 MTPD NPK plant is with Dual mole scrubbing system (with 5 scrubbers) and guaranteed emission norms are well below the limits of G.S.R 1607 (E). Emission Standard - Guaranteed and Emission limit as per G.S.R 1607 (E) in (i) is given below 1. Particulate Matter 45 mg/Nm <sup>3</sup> (100 mg/Nm <sup>3</sup> ) 2. Ammonium as NH <sub>3</sub> 45 mg/Nm <sup>3</sup> (150 mg/Nm <sup>3</sup> ) 3. Total Fluoride as F- <5 mg/Nm <sup>3</sup> (<10 mg/Nm <sup>3</sup> ). Adequate height for Stack considered. Stack Details: Stack (3.25m dia x 38.7 m height) Total elevation El.+63.5m
(vi) Existing fresh water requirement is 7850 cum/day, which is met through Boothathanketu dam. No additional water shall be required for the proposed modernization.	In the new 1650 NPK plant continuous process water requirement is 45 m <sup>3</sup> /h and peak demand is 69 m <sup>3</sup> /h (Plant designed for 22 h of operation). Also about 12 m <sup>3</sup> /h of process water requirement can be replaced with effluent water generated in the plant for NP 20:20:0:13S. No additional water shall be required for the proposed modernization.
(vii) Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.	Effluent and storm water drains are provided separately. Effluent water generated during plant shutdown will be directed to existing Effluent Treatment plant for treatment and ZLD will be ensured when the plant is running.
(viii) Natural gas shall be used as fuel in all the boilers.	Boilers are not envisaged in the project. Natural gas is used for drying of the product.



(ix) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.	No hazardous waste is generated in the plant. All the solid waste (fertilizer dust) is recycled to the plant.
(x) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act, 1989.	The MSHC rules are complied with and the status of compliance is sent to KSPCB every six months.
(xi) The company shall undertake waste minimization measures as below:- (i) Metering and control of quantities of active ingredients to minimize waste. (ii) Reuse of by products from the process as raw materials or as raw material substitutes in other processes. (iii) Use of automated filling to minimize spillage. (iv) Use of Close Feed system into batch reactors. (v) Venting equipment through vapour recovery system. (vi) Use of high pressure hoses for equipment clearing to reduce wastewater generation	(i) Flow meters are available to monitor and control the flow of raw materials. (ii) No by-products are generated in the plant. Off-grade products will be recycled in to the process. (iii) Automated bagging is available. (iv) Close feed system will be provided for reactors (v) Scrubbers are provided as per design to recover vapour (vi) High pressure hoses or steam flushing will be used for equipment clearing to reduce wastewater generation.
(xii) The green belt of at least 5-10 m width shall be developed in nearly 35% 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.	The green belt of at least 5-10 m width shall be developed in nearly 35% of the total project area will be developed after plant construction.
(xiii) As committed, Rs. 3.6 Crores shall be allocated towards Corporate Environment Responsibility (CER). Item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	Expenditure for Corporate Environment Responsibility (CER) activities towards 1650 MTPD NP plant as committed via ref letter forwarded to MOEFCC dated 30.12.2019 is attached as Annexure-2
(xiv) Safety and visual reality training shall be provided to employees.	Safety training is being provided to all employees during induction and after project commissioning plant specific safety training will be provided to employees appointed in the plant.
(xv) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	PR for DG set is placed. For the DG sets, emission limits and the stack height is complied as per the CPCB guidelines. Stack height of the considered DG set (500kVA) is 4.5mtr above the nearest building in compliance with the CPCB guidelines.
(xvi) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.	For the New plant and associated facilities Hazop, Qualitative Risk Assessment and Site Appraisal Committee was conducted and all the recommendations will be implemented. Six ammonia gas detectors and two hydrocarbon detectors are considered in critical areas. Also as per Site Appraisal Recommendation Ammonia gas detectors will be connected to ROCERS. Fire fighting system was provided as per norms. Eyewashers & safety showers are considered in all critical areas (around 12 No.s)
(xvii) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance of the workers is being carried out on a regular basis and records maintained as per the Factories Act for the existing plants. The same shall be extended to employees of new plant after plant commissioning.

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(xviii) Continuous online (24x7) monitoring system for stack emissions 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.	Gaseous emissions are envisaged to be controlled within limits by the scrubbing system. Optic (TDLs) online analyzer for ammonia, particulate matter, and fluorine analyzers are envisaged. All the analysers are connecting to the OCEMS and data will be transferred to the CPCB/SPCB servers.
(xix) Process safety and risk assessment studies shall be further carried out using advanced models, and the mitigating measures shall be undertaken accordingly.	Quantitative Risk Analysis & Hazop has been carried out.

General Conditions		Status
(i) The Project Proponent shall obtain all other statutory/necessary permissions/recommendations/NOCs prior to start of construction/operation of the project, which inter alia include, permission/approvals under the Forest (Conservation) Act, 1980; the Wildlife (Protection) Act, 1972; the Coastal Regulation Zone Notification, 2019, as amended from time to time, and other Office Memoranda/Circular issued by the Ministry of Environment, Forest and Climate Change from time to time, as applicable to the project.	Site appraisal clearance received from F&B. Copy of clearance is attached as Annexure-3.	
(ii) The project proponent shall ensure compliance of 'National Emission Standards', as applicable to the project, issued by the Ministry from time to time. The project proponent shall also abide by the rules/regulations issued by the CPCB/SPCB for control/abatement of pollution.	Compliance of 'National Emission Standards', as applicable and rules/regulations issued by the CPCB/SPCB will be ensured. The emissions committed by process licensor are: Ammonia : $\leq 45 \text{ mg/nm}^3$ Particulate Matter : $\leq 45 \text{ mg/nm}^3$ Fluorine : $\leq 5 \text{ mg/nm}^3$	
(iii) The project authorities shall adhere to the stipulations made by the State Pollution Control Board/Committee, Central Pollution Control Board, State Government and any other statutory authority.	Site appraisal clearance received from F&B. Integrated Consent to establish received from KSPCB. Application for Integrated Consent to Operate will be submitted after completion of project before commissioning.	
(iv) The project proponent shall prepare a site specific conservation plan and wildlife management plan in case of the presence of Schedule-1 species in the study area, as applicable to the project, and submit to Chief Wildlife Warden for approval. The recommendations shall be implemented in consultation with the State Forest/Wildlife Department in a time bound manner.	Schedule-1 species are not present in the study area.	
(v) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, will be carried out without prior approval of the Ministry of Environment, Forest and Climate Change.	
(vi) The energy source for lighting purpose shall be preferably LED based, or advance having preference in energy conservation and environment betterment.	The energy source for lighting in existing plants is LED. The same shall provided for new NP plant.	



(vii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) after completion of plant construction and will be set up accordingly before commissioning.
(viii) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.	NAAQS standards will be complied after setting up of Ambient air monitoring stations.
(ix) 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 Environment (Protection) Act, 1986 Rules, 1980 viz. 75 dBA (day time) and 70 dBA (night time).	Noise measurements will be carried out and complied to after commissioning of the plant
(x) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and to utilize the same for process requirements.	Storm water drains as per plant layout will be provided during construction. Roof top harvesting for all buildings in the project will be provided.
(xi) 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.	Training is being imparted to all employees on safety and health aspects of chemicals handling during joining. Pre-employment and routine periodical medical examinations is being carried out for all employees on regular basis.
(xii) The company shall also 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.	Environmental protection measures are adhered. Existing Onsite Emergency Plan and Quality, Environmental, Health & Safety Policies (QHSE), Incorporating new plant, was updated.
(xiii) 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 is undertaking measures for improving the socio-economic conditions of the surrounding area as a part of CER activities.
(xiv) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	The company is undertaking eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. as a part of CER activities.
(xv) 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.	To be complied after project commissioning.
(xvi) 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.	Sufficient funds will be allocated towards capital cost and recurring cost per annum to implement the conditions stipulated by the MOEFCC as well as the State Government and the details will be reported to KSPCB via Environmental statement every year after the project commissioning.

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(xvii) 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.	Complied. Copy of clearance letter sent to Panchayat is attached as <b>Annexure-4</b>
(xviii) 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 CP&CB and SPCB. A copy of Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company.	Submission of half yearly report is complied. Posting of status to the website is to be complied.
(xix) 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.	The environmental statement for each financial year ending 31st March in Form-V as is mandated is submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, for the existing plants. The report including new plant activities will be submitted after project commissioning. The environmental statement availability on the website of the company along with the status of compliance of environmental clearance conditions will be complied at the earliest and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
(xx) 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 <a href="https://parivesh.nic.in/">https://parivesh.nic.in/</a> . 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.	Complied. The copy of the advertisement shall be forwarded to the concerned Regional Office of the Ministry. proof of advertisement is attached as <b>Annexure-5</b> .
(xxi) 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.	Site appraisal clearance received from F&B.
(xxii) This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Noted



FILE NO : KSPCB/ER2/ICE/10032807/Expansion/2024

Date of issue : 26-02-2024



**KERALA STATE POLLUTION CONTROL BOARD**

**CONSENT TO ESTABLISH**

ISSUED UNDER

The Water (Prevention & Control of Pollution) Act, 1974

The Air (Prevention & Control of Pollution) Act, 1981

and

The Environment (Protection) Act, 1986

As per Application No. : 10032807

Dated : 15-06-2023

To

**The Fertilisers and Chemicals Travancore Limited**

**The Fertilisers and Chemicals Travancore Limited., Cochin Division, Ambalamedu - 682303.  
Kerala**

Consent No. : KSPCB/ER2/ICE/10032807/Expansion/2024

Valid Upto : 30-06-2028

## GENERAL CONDITIONS

### 2.CONDITIONS AS PER The Water (Prevention and Control of Pollution) Act, 1974

- 2.1 The proposed plant shall be Zero Liquid Discharge (ZLD) system. All the liquid effluents generated in the system shall be recycled in the process. Sewage shall be treated in existing Sewage Treatment Plant.
- 2.2 Water Consumption: Process -32 m<sup>3</sup>/hr, Utility- 16 m<sup>3</sup>/hr LPD, Cooling -30 m<sup>3</sup>/hr. Total- 78 m<sup>3</sup>/hr.

### 3.CONDITIONS AS PER The Air (Prevention and Control of Pollution) Act, 1981

- 3.1 Adequate air pollution control measures shall be provided before commissioning of the industry. Additional facilities required, if any, to achieve the standards laid down by the Board shall also be made along with.

Stack No.	Sources of Emission	Emission Rate(Nm <sup>3</sup> /Hr)	Stack Height above Ground Level	Control Equipment	
				Roof Level	
1.	Process stack		63.2m	--	Ventury scrubbing (using Phosphoric acid and water)
2.	DG set		--	4.5m	Acoustic Enclosure

- 3.2 Emission characteristics shall not exceed the following:

S No	Parameter	Limiting standards
1	Particulate matter	100 mg/Nm <sup>3</sup>
2	Ammonium as NH <sub>3</sub>	150 mg/Nm <sup>3</sup>
3	Total fluoride as F <sup>-</sup>	10 mg/Nm <sup>3</sup>

### 4.CONDITIONS AS PER The Environment (Protection) Act, 1986.

- 4.1 The operation of the industry shall be strictly in compliance with the provisions of the Noise Pollution (Regulation and Control) Rules 2000.
- 4.2 All the waste generated in the premises shall be disposed off as per the relevant Rules under Environment(Protection) Act, 1986.
- 4.3 Necessary arrangements for scientific storage, handling and disposal of solid wastes shall be provided as per the Solid Waste Management Rules, 2016 before the commissioning. Biodegradable waste shall be segregated from non biodegradable waste at source. Biodegradable waste shall be disposed through biobins/aerobins/biogas plant. Non biodegradable wastes shall be given to authorised collectors namely Haritha Karma Sena for the disposal of wastes.
- 4.4 Plastic Waste Management Rules, 2016 and amendments shall be followed for the management of plastic waste. Single use plastic ban as per notifications and Government orders for Kerala shall be strictly be followed.
- 4.5 Hazardous waste generated if any, shall be disposed of in compliance with the provisions of the Hazardous and other Wastes (Management and Trans boundary Movement) Rules, 2016.
- 4.6 Waste batteries shall be disposed of as per the Battery Waste Management Rules, 2022
- 4.7 E-waste shall be disposed off safely as per the E-Waste (Management) Rules, 2016 and amendments.
- 4.8 Construction activities shall be carried out strictly in compliance with Construction and Demolition Rules, 2016.
- 4.9 The provisions of The Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and amendemnt shall be fulfilled before commissioning the establishment.
- 4.10 Conditions of Environmental Clearance shall be complied with.



5.21 Public Liability Insurance Policy is to be renewed in time.

Digitally signed by SREEKAL  
Date: 2024.02.26 16:24:29 IS

SIGNATURE OF ISSUING AUTHORITY

CHAIRMAN

To

M/s The Fertilisers and Chemicals Travancore Limited

The Fertilisers and Chemicals Travancore Limited, Cochin Division, Ambalamedu - 682303, Kerala

E-Mail : gmcd@factltd.com

Contact Number : 9846359970

1. This digitally signed document is legally valid as per the Information Technology Act 2000
2. For verifying this document please go to [www.keralapcbonline.com](http://www.keralapcbonline.com) and search using Certificate Number/name of the unit/Application Number in "Certificate Verification" link in the home page of the Board's Phoenix website.

**Annexure – 2**

**Expenditure for Corporate Environment Responsibility ( CER ) activities**

S,No	Activity	Amount allocated ( lakh )
1	Construction of Sewage Treatment Plants ( 120 KLD & 40 KLD ) in FACT Township	3.75 Crore

*B. el. Leetha*

**GOVERNMENT OF KERALA****Abstract**

Labour and Skills Department- Factories and Boilers - Site appraisal clearance - The Fertilisers and Chemicals Travancore Ltd (Cochin Division), Ambalamedu, Ernakulam - Granted - orders issued.

**LABOUR & SKILLS (B) DEPARTMENT**

G.O.(Rt)No.996/2023/LBR Dated, Thiruvananthapuram, 13-08-2023

Read 1 Letter No.G4-1213/2023/F&B dated 07.07.2023 from the Director of Factories and Boilers Department, Thiruvananthapuram.

**ORDER**

The Director of Factories and Boilers, vide his letter read above, has recommended and forwarded the proposal submitted by the Chief General Manager, FACT Cochin Division for Site Appraisal Clearance for their project, to construct a new 1650 MTPD NPK plant at FACT Cochin Division, in Vadavukodu Puthencruz panchayath of Ernakulam District, as required under Section 41A of the Factories Act, 1948.

2. Government have examined the matter in detail and are pleased to accord site appraisal clearance to FACT Cochin Division, for their project to construct a new 1650 MTPD NPK plant at FACT Cochin Division, in Vadavukodu, Puthencruz panchayath of Ernakulam District subject to the following conditions as per Section 41A of Factories Act, 1948.

1. The clearance is without prejudice to the stipulations and conditions laid down by other statutory bodies like Pollution Control Board, Explosive department, Town & Country Planning Department, Fire & Rescue Department, Science and Technology Department, Environment Department etc.
2. Revised Quantitative Risk Analysis, considering the cascading effect of tanks and plant with toxic gas dispersion modeling should be prepared and submitted.
3. Onsite and offsite emergency plan should be revised considering the

- additional risk involved in the new project and should be submitted.
4. Data regarding the water balance, Zero Liquid Discharge and ETP should be prepared and submitted to KSPCB.
  5. Occupational Health Centre and Fire & Safety Departments should be strengthened both in manpower and facilities considering the additional risk involved in this project.
  6. Low and high level alarm, tripping and shut down system etc of pressure, temperature and flow and other safety mechanisms mentioned in the HAZOP study and QRA reports should be implemented during the construction.
  7. Periodic public safety awareness programs should be organized.
  8. All ammonia sensors should be integrated with the ROCERS project of Factories & Boilers Department.

(By order of the Governor)  
Ajit Kumar I A S  
SECRETARY

To:

The Director of Factories and Boilers, Thiruvananthapuram.  
The Chief General Manager, The Fertilisers and Chemicals Travancore Ltd (Cochin Division), Ambalamedu, Ernakulam.  
The Principal Accountant General (Audit)/(A&E), Kerala, Thiruvananthapuram.  
Information & Public Relations Dept. (web & new media for publication)  
The Stock file/ Office copy

Forwarded /By order

Signed by

Umadevi.k.b

Section Officer

Date: 14-08-2023 11:36:08

PS to Minister (General Education and Labour)  
CA to Secretary to Government.  
CA to Additional Secretary, Labour and Skills Department.  
Under Secretary, Labour and Skills Department.

cc: GM (L&T)  
cc: GM (OP)  
cc: EDCPC - for info pl.  
cc: file

28/08/23

cc: DGM (TJ) / SM TA (Pv)  
cc: SM (Projects)





प्रगति के पथप्रदर्शक  
PIONEERS IN PROGRESS

# दि फर्टिलाइज़र्स एण्ड केमिकल्स ट्रावन्कोर लिमिटेड THE FERTILISERS AND CHEMICALS TRAVANCORE LTD.

(भारत सरकार का उद्यम) (A Government of India Enterprise)

पंजीकृत कार्यालय: एलूर, उद्योगमंडल, कोची - 683501, केरल राज्य, भारत

Regd. Office: Eloor, Udyogamandal, Kochi - 683501, Kerala State, India. Website: www.fact.co.in CIN: L24129KL1943GOI000371

COCHIN DIVISION, Ambalamedu-682303, Kochi, Kerala, Tel: 0484 2720902, Fax: 0484 2720948,

GM-CD - 1343

OW-72

10.03.2020

Secretary,  
Vadavukode Puthecruz Grama Panchayat

Sub: Environmental clearance for Capacity Enhancement in FACT-Cochin Division

Ref: F.No:J-11011/177/2011-IA-II (I)

Sir,

Vide reference on the subject mentioned above kindly note that Fertilizers And Chemicals Travancore Limited -Cochin Division has been accorded Environmental clearance by Ministry Of Environment, Forest and Climate Change, Govt. of India, New Delhi (F.No:J-11011/177/2011-IA-II (I)) for the proposed project of Capacity enhancement of fertiliser production. Copy of the Environment Clearance is attached herewith.

This is for your information.

Thanking You,

Very truly yours,  
For FACT-Cochin Division

T.P. Ajith Kumar  
General Manager

Encl: As above



प्रगति के पथप्रदर्शक  
PIONEERS IN PROGRESS

दि फर्टिलाइजर्स एण्ड केमिकल्स ट्रावन्कोर लिमिटेड  
THE FERTILISERS AND CHEMICALS TRAVANCORE LTD.

(भारत सरकार का उद्यम) (A Government of India Enterprise)

पंजीकृत कार्यालय: एलूर, उद्योगमंडल, कोची - 683501, केरल राज्य, भारत

Regd. Office: Eloor, Udyogamandal, Kochi - 683501, Kerala State, India. Website: www.fact.co.in CIN: I 24129KL1943GOI000371

COCHIN DIVISION, Ambalamadu-682903, Kochi, Kerala, Tel: 0484 2720902, Fax: 0484 2720948,

GM-CD-1356

OW-7X

11<sup>th</sup> March 2020

Dr. S. Prabhu,  
Scientist 'C',  
Ministry of Environment & Forests,  
Regional Office (South Zone), IV<sup>th</sup> Floor, E&F Wings,  
Kendriya Sadan, 17<sup>th</sup> Main Road, II<sup>nd</sup> Block, Koramangala,  
Bangalore- 560034.

Sub: Advertisement of Environmental Clearance reg.  
Ref: F.No. J-11011/177/2011-IA-II(I) dated 21.02.2020


Sir,

Vide reference above kindly see the copy of newspaper advertisements regarding the environmental clearance issued to The Fertilisers and Chemicals Travancore Limited- Cochin Division, Ambalamadu for the proposed Capacity Enhancement project.

This is for your kind information and records.

Thanking you,

Very truly yours,  
For FACT-Cochin Division

  
T.P. Ajith Kumar  
General Manager

Encl: (1) Copy of Advertisement in "The New Indian Express"  
(2) Copy of Advertisement in "Mathrubhumi"



...s best  
...ive. How-  
...due to vari-  
...ne added.  
...gress (M) work-  
...P J Joseph will

...s, Joy Abraham and other  
leaders will take part.  
**Johnny misleading party  
workers, says Anoop**  
Meanwhile, Anoop Jacob, the  
lone member of KC (Jacob),  
has come out against Johnny

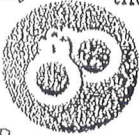
vide between Anoop and  
Johnny widened over sugges-  
tions for a merger with the  
Joseph faction. While Johnny  
decided to move forward with  
the merger, the group led by  
Anoop will stay an independ-  
ent party in the UDF.

the way to the court. After be-  
ing rushed to the Trivandrum  
MCH, he was subjected to an  
endoscopy under the watch of  
cardiothoracic head Abdul  
Rasheed to remove the coin  
lodged in his food pipe. His con-  
dition is said to be stable.

## woman caught while ing to kidnap 9-yr-old

NEWS SERVICE @Kollam

A woman was taken  
by the Karunagap-  
se on Thursday after  
her for allegedly  
to abduct a  
-old girl from  
ppally.  
is alleged that  
tried to kidnap  
student of SNUF  
magapally around  
ly 50 metres from  
ording to the po-  
mine was on her  
school, the woman



caught hold of her hand and  
asked the child to accompany  
her. The terrified child ran away  
from her to a nearby shop where  
she informed the locals present  
there of the matter. The people  
at the shop soon  
stopped the woman who  
tried to flee and handed  
her over to the police.  
It is learnt that the wom-  
an is a Tamil Nadu native  
and is around 60-years-old. "On  
interrogation it seems like she  
is mentally unstable and had no  
such intention. We are question-  
ing her," the police said.

**MEDICAL SERVICES CORPORATION LTD.**  
HEALTH & FAMILY WELFARE, GOVT. OF KERALA  
CHIRUVANANTHAPURAM - 695014  
Email: careers@kmscl.kerala.gov.in  
Website: www.kmscl.kerala.gov.in

Dated: 05.03.2020

### LATE APPOINTMENT

ration Limited (KMSCL), invites application from suitable candidates  
nment to the following post on contract basis.

Qualification & Experience	Remuneration	Age
Computer Science) / MCA (Mandatory) Post qualification experience for 2 years for other discipline in development firms. as	Consolidated Pay of ₹20,000/- per month.	Candidate should have born 01.01.1985 or later
(Mandatory) Post qualification experience (of 2 years experience in PSU/Govt./ Institutions with minimum HR level is preferred)	Consolidated Pay of ₹20,000/- per month.	Candidate should have born 01.01.1985 or later

Interested candidates may send their application in the  
ite (www.kmscl.kerala.gov.in) along with scanned copies of  
email: careers@kmscl.kerala.gov.in, or downloaded application  
of relevant documents may be sent physically through speed  
in Head Office, on or before 20.03.2020.

Attend a written test and interview for selection for the post.  
Candidates less than or equal to 15, only Interview will be

If he appointed, on contract basis, initially for a period of one  
year, based on the performance and integrity of the  
candidate during the period of contract.

(Sd/-) MANAGING DIRECTOR

**BIHAR ANIMAL SCIENCES UNIVERSITY**  
Bihar Veterinary College Campus, Patna - 800014  
Web: www.basu.org.in

**DATE EXTENSION NOTICE**  
**EMPLOYMENT NOTICE NO. 01/2020-REG.**  
Date of submission of online application form and fee for teaching  
posts of College of Fisheries, Kishanganj is being extended:-  
1) Last date of submission of the online application: 27.03.2020 at  
form and fee 04:00 PM  
2) The last date of submission of self-attested printed: 11.04.2020 at  
online application along with relevant/desired 04:00 PM  
documents (PDF) also with print out of the online  
fees receipt by registered / speed post.  
Sd/- Registrar

**INDIAN INSTITUTE OF SCIENCE**  
EDUCATION AND RESEARCH, TIRUPATI  
(An Autonomous Institution under Ministry of HRD, Govt. of India)  
Karakambadi Road, Tirupati - 517 507

**RECRUITMENT FOR VARIOUS NON-TEACHING POSITIONS:**  
IISER Tirupati invites online applications from Indian nationals having  
excellent academic record and relevant work experience for various  
Non-teaching positions.  
For detailed advertisement, please visit [www.iiseritirupati.org.in](http://www.iiseritirupati.org.in)  
and click on the link "Opportunities Technical/Administration".  
The last date for submission of online applications is April 22, 2020.  
Advt. No. 08/2020/IISER-T/Recd./05.03.2020 Sd/- Registrar

**FACT THE FERTILISERS AND CHEMICALS TRAVANCORE LIMITED**  
(A Government of India Enterprise) Udyogamandal, Kochi-683501, Kerala  
Cochin Division, Ambalamadu, Kochi - 682308, CIN: L24129KL1943GOI000371  
Phone: +91 - 484 - 2720902 / 2723762, Fax +91 - 484 - 2720940  
Email: alth@facttd.com, techcd@facttd.com, website: www.fact.co.in

**Public Notice**  
**Environmental Clearance for Capacity enhancement in FACT Cochin Division**  
This is to inform that the proposed Fertilizer manufacturing capacity  
Enhancement project by Fertilizers and Chemicals Travancore Limited at  
Ambalamadu - Cochin Division, survey no 205 of Puthencruz village,  
Kunnathunadu Taluk, Ernakulam District has been accorded Environmental  
clearance by Ministry of Environment, Forest and Climate change, New Delhi  
(F.No: J-11011/177/2011-IA-II (I)). Copy of the Environmental Clearance letter  
is available with the SPCB and also seen at the website of the ministry and at  
<http://parivesh.nic.in/>  
Sd/-  
(General Manager - Cochin Division)

**SAINIK SCHOOL KODAGU**  
(Under Ministry of Defence, Govt. of India)  
PO Kudige Dist: Kodagu, Karnataka PIN 571232

**RECRUITMENT NOTIFICATION**  
Applications are invited from female candidates only, for various  
Contractual Vacancies at Sainik School Kodagu. The details are as  
follows:-

Sl. No.	Name of the Post	No. of Posts Type of Post	Age as on 01 Jun 2020
1	Matron (Female)	01 (Contractual)	18-50 Years for all posts
2	Nursing Sister (Female)	01 (Contractual)	
3	General Employee (Female)	02 (Contractual)	

How to Apply: For detailed Notification and Application Form, visit  
school website [www.sainikschoolkodagu.edu.in](http://www.sainikschoolkodagu.edu.in) from 06 Mar  
2020 to 20 Mar 2020. The school administration reserves the right to  
cancel any or all vacancies due to administrative reasons. Last date  
of receipt of filled in applications is 26 Mar 2020 (Thursday).  
PRINCIPAL

The New Indian Express dated 06/03/2020



സ്വീഡിഷ് ഹെൽത്ത് സെക്ടറിൽ  
നാല്പത്തിയെട്ടാമത്തെ സ്റ്റാമ്പിംഗ്  
കുറ സ്വീഡിഷ് ഹെൽത്ത് സെക്ടറിൽ



**भारतीय प्रबंध संस्थान कोझिकोड**  
**INDIAN INSTITUTE OF MANAGEMENT KOZHIKODE**  
IIIM Campus PO, Kozhikode - 683010, Kerala

**NOTICE INVITING TENDER**

Notice Inviting Tender is invited from eligible and qualified Bidders /Agencies for "Running a Restaurant at IIIM Campus"

For further details please visit our web site at <http://www.iiim.ac.in/iiimkuzhikode/tenders.php>

03.03.2020

Sd/-  
(Chief Administrative Officer)

[illegible]

 **INDIAN INSTITUTE OF SPACE SCIENCE AND TECHNOLOGY (IIST)**  
Department of Space, Government of India  
Thiruvananthapuram 695 547, Kerala State, India  
Phone: 0371-2568451, Fax: 0371-256 8406, e-mail: [purchase@iist.ac.in](mailto:purchase@iist.ac.in)  
  
**PUBLIC TENDER**  
Sealed tenders are invited for

Installation of following items/ services at IIST.

1. PARAMETRIC ANALYZER - Tender No. 201900747901 - 1 No. (TWO PART BID)
2. TUNABLE EXTERNAL CAVITY DIODE LASER - Tender No. 201900749701 - 1 No. (TWO PART BID)
3. DISTRIBUTION LINES - Tender No. 201900766001 - 1 Lot (TWO PART BID)
4. SPUTTERING UNIT - Tender No. 201900766201 - 1 No. (SINGLE PART BID)
5. RATE CONTRACT FOR ADVERTISEMENT - Tender No. 201900765101 - 03 Years (SINGLE BID)

The tender documents including detailed Terms and Conditions & Quantity can be downloaded from our website: [www.iist.ac.in](http://www.iist.ac.in). The due date of receipt of tender shall be: 23.04.2020 at 14.00 hrs. The tender shall be opened in the presence of bidder's representatives on the next day i.e. 24.04.2020 at 10.30 hrs. at IIST.

16/06/2020

Deputy Registrar

[illegible]

**FACT THE FERTILISERS AND CHEMICALS TRAYANCORE LIMITED**  
 (Formerly known as United Fertilizers) Udyogamandal, Kochi-683301, Kerala  
 Phone: +91-484-2720900, Fax: +91-484-2720901, 2720902, 2720903, 2720904, 2720905, 2720906, 2720907, 2720908, 2720909, 2720910, 2720911, 2720912, 2720913, 2720914, 2720915, 2720916, 2720917, 2720918, 2720919, 2720920, 2720921, 2720922, 2720923, 2720924, 2720925, 2720926, 2720927, 2720928, 2720929, 2720930, 2720931, 2720932, 2720933, 2720934, 2720935, 2720936, 2720937, 2720938, 2720939, 2720940, 2720941, 2720942, 2720943, 2720944, 2720945, 2720946, 2720947, 2720948, 2720949, 2720950, 2720951, 2720952, 2720953, 2720954, 2720955, 2720956, 2720957, 2720958, 2720959, 2720960, 2720961, 2720962, 2720963, 2720964, 2720965, 2720966, 2720967, 2720968, 2720969, 2720970, 2720971, 2720972, 2720973, 2720974, 2720975, 2720976, 2720977, 2720978, 2720979, 2720980, 2720981, 2720982, 2720983, 2720984, 2720985, 2720986, 2720987, 2720988, 2720989, 2720990, 2720991, 2720992, 2720993, 2720994, 2720995, 2720996, 2720997, 2720998, 2720999, 2721000, 2721001, 2721002, 2721003, 2721004, 2721005, 2721006, 2721007, 2721008, 2721009, 2721010, 2721011, 2721012, 2721013, 2721014, 2721015, 2721016, 2721017, 2721018, 2721019, 2721020, 2721021, 2721022, 2721023, 2721024, 2721025, 2721026, 2721027, 2721028, 2721029, 2721030, 2721031, 2721032, 2721033, 2721034, 2721035, 2721036, 2721037, 2721038, 2721039, 2721040, 2721041, 2721042, 2721043, 2721044, 2721045, 2721046, 2721047, 2721048, 2721049, 2721050, 2721051, 2721052, 2721053, 2721054, 2721055, 2721056, 2721057, 2721058, 2721059, 2721060, 2721061, 2721062, 2721063, 2721064, 2721065, 2721066, 2721067, 2721068, 2721069, 2721070, 2721071, 2721072, 2721073, 2721074, 2721075, 2721076, 2721077, 2721078, 2721079, 2721080, 2721081, 2721082, 2721083, 2721084, 2721085, 2721086, 2721087, 2721088, 2721089, 2721090, 2721091, 2721092, 2721093, 2721094, 2721095, 2721096, 2721097, 2721098, 2721099, 2721100, 2721101, 2721102, 2721103, 2721104, 2721105, 2721106, 2721107, 2721108, 2721109, 2721110, 2721111, 2721112, 2721113, 2721114, 2721115, 2721116, 2721117, 2721118, 2721119, 2721120, 2721121, 2721122, 2721123, 2721124, 2721125, 2721126, 2721127, 2721128, 2721129, 2721130, 2721131, 2721132, 2721133, 2721134, 2721135, 2721136, 2721137, 2721138, 2721139, 2721140, 2721141, 2721142, 2721143, 2721144, 2721145, 2721146, 2721147, 2721148, 2721149, 2721150, 2721151, 2721152, 2721153, 2721154, 2721155, 2721156, 2721157, 2721158, 2721159, 2721160, 2721161, 2721162, 2721163, 2721164, 2721165, 2721166, 2721167, 2721168, 2721169, 2721170, 2721171, 2721172, 2721173, 2721174, 2721175, 2721176, 2721177, 2721178, 2721179, 2721180, 2721181, 2721182, 2721183, 2721184, 2721185, 2721186, 2721187, 2721188, 2721189, 2721190, 2721191, 2721192, 2721193, 2721194, 2721195, 2721196, 2721197, 2721198, 2721199, 2721200, 2721201, 2721202, 2721203, 2721204, 2721205, 2721206, 2721207, 2721208, 2721209, 2721210, 2721211, 2721212, 2721213, 2721214, 2721215, 2721216, 2721217, 2721218, 2721219, 2721220, 2721221, 2721222, 2721223, 2721224, 2721225, 2721226, 2721227, 2721228, 2721229, 2721230, 2721231, 2721232, 2721233, 2721234, 2721235, 2721236, 2721237, 2721238, 2721239, 2721240, 2721241, 2721242, 2721243, 2721244, 2721245, 2721246, 2721247, 2721248, 2721249, 2721250, 2721251, 2721252, 2721253, 2721254, 2721255, 2721256, 2721257, 2721258, 2721259, 2721260, 2721261, 2721262, 2721263, 2721264, 2721265, 2721266, 2721267, 2721268, 2721269, 2721270, 2721271, 2721272, 2721273, 2721274, 2721275, 2721276, 2721277, 2721278, 2721279, 2721280, 2721281, 2721282, 2721283, 2721284, 2721285, 2721286, 2721287, 2721288, 2721289, 2721290, 2721291, 2721292, 2721293, 2721294, 2721295, 2721296, 2721297, 2721298, 2721299, 2721300, 2721301, 2721302, 2721303, 2721304, 2721305, 2721306, 2721307, 2721308, 2721309, 2721310, 2721311, 2721312, 2721313, 2721314, 2721315, 2721316, 2721317, 2721318, 2721319, 2721320, 2721321, 2721322, 2721323, 2721324, 2721325, 2721326, 2721327, 2721328, 2721329, 2721330, 2721331, 2721332, 2721333, 2721334, 2721335, 2721336, 2721337, 2721338, 2721339, 2721340, 2721341, 2721342, 2721343, 2721344, 2721345, 272

...dated - 06/03/2005

MaPhonbhum - dated - 06/03/2020