

FACT
CORPORATE
MATERIALS.

TRANSPORTATION OF PHOSPHORIC ACID SOLUTION
(27% P2O5) FROM RCF, TROMBAY TO FACT-CD, AMBALAMEDU

Enquiry No:
MM/181/E32021
dated 23.08.2025

CORRIGENDUM NO 2 DTD 11.09.2025

THE FERTILISERS AND CHEMICALS TRAVANCORE LIMITED
CORPORATE MATERIALS
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**E-Tender for Transportation of Phosphoric acid solution (27% P2O5) from RCF,
Trombay, Mumbai to FACT-CD, Ambalamedu**

[ENQUIRY NO: MM/181/E32021 dated 23.08.2025]
(E-Tender ID. 2025_FACT_874460_1)

Technical Corrigendum: Clarifications to pre-bid queries

Please see the attached corrigendum details clarifications to the pre-bid queries.

**Sd/-
Asst Gen. Manager (Materials)-T&S**

PRPD. BY:	CHKD. BY:	APPRD. BY:	
Transport S services	FERTILISERS AND CHEMICALS TRAVANCORE LIMITED		

FACT CORPORATE MATERIALS	TRANSPORTATION OF PHOSPHORIC ACID SOLUTION (27% P2O5) FROM RCF, TROMBAY TO FACT-CD, AMBALAMEDU	Enquiry No: MM/181/E32021 dated 23.08.2025
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Clarifications to Queries raised by bidders		
Tender NO	MM/181/E32021	
Name of work:	Transportation of Phosphoric acid solution (27 Percent P2O5) from RCF, Trombay, Mumbai to FACT CD, Ambalamedu for a period of 4 months.	
Sl. No.	BIDDER CLARIFICATION / QUERY	FACT REPLY
1	Whether the transit insurance for the cargo(material) will be under the scope of FACT or Contractor.	The transit insurance for the cargo(material) will be under the scope of FACT.
2	Considering the safety aspects, whether the unloading the materials at CD will be under the scope of FACT or Contractor.	The unloading the materials at CD will be under the scope of Contractor.
3	For raising invoices/billing by contractor, the weighment at RCF loading point or weighment at FACT unloading point to be taken.	For raising invoices/ billing by contractor, the weighment at RCF loading point and weighment at FACT unloading point , whichever is lower is to be taken.
4	Documentary evidence of the truck calibration certificate required. Why is phosphoric acid transportation calibration essential?	Documentary evidence of the truck calibration certificate required.
5	MSDS of 27% P2O5 MSDS of 27% P2O5 with all 16 sections	Document attached

All other terms and conditions remains unchanged.

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL

Trade name : Phosphoric Acid
Chemical Name : Phosphoric Acid
Synonyms : Orthophosphoric Acid, Monophosphoric acid
Manufacturer : Rashtriya Chemicals & Fertilizers Ltd.

2. HAZARD IDENTIFICATION

Appearance & Odor : Clear, colorless, syrupy liquid with no odour.
Safety Information
Health Effects : Corrosive liquid causes eye and skin burns.
Physical & Chemical : Forms flammable & Explosive hydrogen through corrosion of metals Hazards At high temperature.
Specific Hazards : Corrosive causes eye and skin burns.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

INGREDIENTS

CAS NO. : 7664-38-2

H S Code : 2809 20 01

UN Code : UN 1805

Composition: Phosphoric acid – 27 %

4. FIRST AID MEASURES

General Advice : Take off immediately all contaminated clothing (Including Shoes)
Inhalation : Move to fresh air. If required, provide oxygen or artificial respiration.
Skin contact : Wash immediately, abundantly & thoroughly with water. If possible rinse with bicarbonate solution.
Eye contact : Wash immediately & abundantly with water for at least 15 minutes. Consult an ophthalmologist immediately.
After swallowing : Do not induce vomiting, rinse mouth and lips with plenty of water if the subject is conscious, then hospitalize immediately. Never give anything in mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing media: In case of Fire nearby use dry Powder, Foam, Carbon dioxide (CO₂) media

Special hazards : Non-flammable product. Forms flammable and explosive hydrogen through corrosion of Metals.

Temperature above 2000 °C : Formation of Polyphosphoric Acid (Dehydration)

At High Temperature : Thermal decomposition giving corrosive products Phosphorus Oxides.

Specific Method

In case of Fire : Remove exposed containers. Cool containers with water spray.

Special Protective Equipment

for Firefighters : In case of Fire, wear a self-contained breathing apparatus and Acid resistant cloth.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection : Avoid contact with skin and eyes and inhalation of hot vapours.

Environmental protection : Do not allow material to be released to the environment. Do not let the product enter into drains. Contain by damming.

Methods for cleaning up

Recovery : Pump into an inert labeled emergency container. Clean up puddle of Product immediately. Dilute the puddles with water & recover it.

Neutralization : Neutralize with an alkaline carbonate or neutralize with slaked lime (Filter the salt obtained –neutralize the liquid)

7. HANDLING AND STORAGE

STORAGE :

Two Phosphoric acid dispatch tanks of capacities each of 185 m³ at PA plant for dispatching acids through tankers.

HANDLING :

The storage tanks having piping for receiving phosphoric acid from Phosphoric Acid plant. A dyke wall is provided for containment during emergency situations.

TRANSPORTATION:

Transportation of Phosphoric acid is done by Tanker. Storage & handling precautions applicable to products: Corrosive and ensure appropriate exhaust & ventilation at machinery. Provide showers, eye baths.

Safe handling advice: Avoid splashing when handling. Do not pour water

8. EXPOSURE CONTROL PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMIT: IDLH: 250 PPM, STEL: 3 mg/m³

PROTECTION

Protective Provisions : Ensure sufficient air exchange and/ or exhaust in working areas

Personal Protective Equipment

Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment
Hand protection	: Gloves
Eye protection	: Safety glasses / goggles. Face mask (in case of spattering)
Skin & body protection	: Protective clothing , Non-skid boots (Butyl rubber-chlorinated polyethylene-Neoprene-Polyvinyl
Specific hygienic Measures : Avoid contact with skin and eyes and inhalation of hot vapours.	

9. PHYSICAL AND CHEMICAL PROPERTIES IDENTIFICATION OF THE MATERIAL

PROPERTIES

Physical State (20° C)	: Liquid (viscous)
Colour	: Brownish liquid
Specific gravity	: 1.27-1.28
Solubility in Water	: at 20 ° C Completely soluble
Solvents	: Soluble in Alcohols

10. STABILITY AND REACTIVITY

Conditions to avoid	: Store protected from moisture & heat
Materials to avoid	: Bases, Quicklime: Exothermic reaction-Violent reaction Alcohols- ketones -Amines: Exothermic reaction Water - Very exothermic reaction & possibility of spitting Nitrates-Chlorates – Calcium Carb Explosive reaction(Flammability) Metals – finely divided metals

11. TOXICOLOGICAL INFORMATION

Acute toxicity	: May be harmful by inhalation, ingestion, or skin absorption. Material is destructive to tissue of the mucous membranes and upper respiratory tract eyes and skin.
Inhalation	: Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.
Chronic Effects	: Target Organ(S): Liver, Blood, Bone Marrow

12. ECOLOGICAL INFORMATION

Phosphoric Acid is practically toxic to fresh water fish.

13. DISPOSAL METHODS

Recommendation : Dilute cautiously with water and then process. Neutralize with an alkaline carbonate or Neutralize with slaked lime (Filter the salt obtained- Neutralize the liquid)
Disposal must be made according to PCB guidelines

14. TRANSPORT INFORMATION

UN number : UN 1805
Description of goods : Phosphoric Acid
ADR/RID/IMO class : 8
Packing group : III
IATA Class : 8

15. REGULATORY INFORMATION

Corrosive, R 34 Causes burns. S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 27 Take Off Immediately all Contaminated Clothing. S 36/37/39 Wear Suitable Protective Clothing, Gloves And Eye/Face Protection.

16. ANY OTHER INFORMATION IDENTIFICATION OF THE MATERIAL

Nil