

**GOVERNMENT OF INDIA  
DEPARTMENT OF SPACE  
VIKRAM SARABHAI SPACE CENTRE (VSSC)  
THIRUVANANTHAPURAM**

**Tender for Collection & Disposal of Liquid effluent**

**Bids to be submitted online**

**Tender No.: VSSC/PURCHASE UNIT III (SPRE)/VS202400732701 dated 23-01-2025**

## A. Tender Details

Tender No :	VSSC/PURCHASE UNIT III (SPRE)/VS202400732701
Tender Date :	23-01-2025
Tender Classification:	SERVICES
Purchase Entity :	PURCHASE UNIT III (SPRE)
Centre :	VIKRAM SARABHAI SPACE CENTRE (VSSC)

## Collection & Disposal of Liquid effluent

This tender is proposed as a DOMESTIC PUBLIC TENDER.

1)Last minute clarification on tenders will not be entertained. 2)This is an E Tender. Hence Postal/Fax/Email tenders will not be accepted. 3)Your quotation with details of items being supplied, Split up cost if applicable, detailed terms & conditions shall be mandatorily uploaded.

### A.1 Tender Schedule

Tender Publish Date :	23-01-2025 16:00
Bid Clarification Due Date :	12-02-2025 10:00
Bid Submission Start Date :	07-02-2025 17:01
Bid Submission Due Date :	25-02-2025 14:00
Bid Opening Date :	25-02-2025 14:01

### A.2 Pre-bid Meeting Details

Date :	07-02-2025 17:00
Place :	APEP, ALUVA
Location :	APEP, ALUVA

**Centre :**

**VIKRAM SARABHAI SPACE CENTRE  
(VSSC), THIRUVANANTHAPURAM, KERALA**

**Details :**

**PRE-BID MEETING: You shall intimate your willingness for the site visit and mail to [ps02\\_prso\\_pur@vssc.gov.in](mailto:ps02_prso_pur@vssc.gov.in). (Kindly mention the Tender No. as subject in the mail) before 07/02/2025. Date of Pre-bid meeting/site visit shall be intimated to you on the receipt of your intimation.**

## **B. Tender Attachments**

### **Technical Write-up/Drawings**

**Document : Scope of work**

### **Instructions To Vendors**

#### **2. Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA**

1. Any bidder from a country which shares a land border with India will be eligible to bid in this tender, only if the bidder is registered with the Competent Authority.

Competent Authority for the purpose of registration shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT).

2. Any false declaration and non-compliance of the above would be a ground for immediate rejection of offer or termination of the contract and further legal action in accordance with the laws.

3.

Validity of Registration: Registration should be valid at the time of submission of bids and should be valid at the time of placement of order.

#### **3. Instructions to Vendors**

1. Last minute clarification on tenders will not be entertained.

2. This is an E Tender. Hence Postal/Fax/Email tenders will not be accepted.

## C. Bid Templates

### C.1 Technical Bid - Collection & Disposal of Liquid effluent

#### 1. COLLECTION AND DISPOSAL OF LIQUID EFFLUENT OF APEP

##### 1.1 COLLECTION AND DISPOSAL OF LIQUID EFFLUENT OF APEP - Transportation

##### 1.2 COLLECTION AND DISPOSAL OF LIQUID EFFLUENT OF APEP - Transportation

#### Item specifications for COLLECTION AND DISPOSAL OF LIQUID EFFLUENT OF APEP

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Collection of Liquid Effluent from APEP, Aluva and its disposal into the sea, 15 km from the coastline for two years as per the guidelines issued by authorities and as per Annexures I & II to the tender invitation. Approximate quantity to be disposed in two years is 10,000 kL.		-		

2	<p>The work involves collection of liquid effluent, at the rate of about 300 kL to 500 kL per month from effluent storage tanks at APEP, Aluva in tanker lorries/ tank mounted trucks, transporting to the barge/ seaworthy vessel station, unloading into barge/ seaworthy vessel, transportation and disposal into sea beyond 15 km from coastline (coordinates to 15 km from the nearest coastline is 9o57.5' N, 76o5.1'E), as per the Standard Operating Procedure (SOP) issued by Cochin Port Trust</p>		-		
3	<p>Approximate quantity of effluent to be disposed off during the period of contract would be around 10,000 kL at the rate of 300 kL to 500 kL per month. The Contractor shall, however, be responsible to remove the actual quantity of effluent as and when the request for disposal is made from APEP. The frequency of disposal expected is once per month.</p>		-		
4	<p>In addition to the normal collection and disposal of liquid effluent, the contractor has to ensure that the available stock of effluent at APEP is cleared before 20 May in each calendar year of the contract period.</p>		-		

5	The Contractor shall not have any legal right and dispute with regard to the quantity or chemical composition of the effluent		-		
6	The disposal of each lot of effluent shall be completed within 5 days from the day of intimation from Department.		-		
7	On intimation from APEP, the contractor shall position the required number of tanker lorries/ tank mounted trucks at APEP on the specified date. The tanker lorries arranged shall not contain any kind of chemicals.		-		
8	Pumping of effluent to tanker Lorries will be done by APEP. Quantity of effluent loaded into the tanker trucks will be measured and recorded by APEP.		-		
9	The contractor has to ensure that after the draining/pumping of liquid effluent from tanker lorries to barge, the loading compartments of the tanker lorries are to be properly washed with water/sea water and the same has to be drained/pumped to the barge for disposal with the liquid effluent. If the tanker lorries are operating in multiple trips, the washing of the loading compartments of the tanker lorries and pumping to barge shall be done in the last trip.		-		

10	<p>The barge/ seaworthy vessel arranged by the contractor should have a valid license/ approval from the relevant Authorities. The barge shall be operated by personnel having appropriate certificates and approvals.</p>		-		
11	<p>The contractor shall arrange the barge / seaworthy vessel having a tank capacity for carrying at least 200 kL (250 MT) effluent to minimize the number of trips. The barge / sea worthy vessel offered should have preferably twin engine, for the safe voyage.</p>		-		
12	<p>Dispose the effluent into the sea, 15 km from coastline (coordinates to 15 km from nearest coastline is 90 57.5' N, 760 05.1' E), by continuously moving so that there is no local concentration of effluent in any particular area.</p>		-		
13	<p>The contractor has to ensure that after completion of the pumping of effluent from barge to sea, the barge tanks have to be washed with sea water by pumping sea water from sea and then pumping back the wash water to sea. This activity has to be carried out in the same area where effluent is being disposed.</p>		-		



14	The quantity of liquid effluent accounted for payment will be the quantity of liquid effluent taken from APEP. No additional charges will be paid by the Department for the quantity of wash water used for the cleaning of tanker lorries or barge.		-		
15	The contractor shall engage a competent supervisor to closely monitor and ensure that the entire activities of effluent disposal are performed by strictly adhering to the P.O conditions. He should be physically present to supervise all the activities, starting from pumping of liquid effluent from APEP, transportation to the barge station, pumping to barge and sea disposal. The contractor shall ensure that all conditions detailed in sl no.28 to 36 (Safety) are complied with.		-		
16	The contractor shall ensure that the barge used for effluent disposal is empty (without any chemical in the barge tank) when reporting for filling of effluent and is not used for any other activities from the time of unloading effluent from tanker lorries to barge and returning back to the approved barge station/jetty in Cochin area after effluent disposal.		-		

17	<p>The contractor shall ensure that the barge/sea going vessel is not used for transportation of any other material during its onward/return sea sail of the effluent disposal activity. Any infringement from the above will be deemed as a contract violation. The contractor shall be solely responsible for the same and the cost of any such damages shall be recovered from the contractor's bill or Bank Guarantee or Security Deposit and shall invite legal proceedings.</p>		-		
18	<p>The contractor may use any of the approved barge stations /jetty in Kochi backwaters as per the prevailing regulations and on mutual understanding with APEP. The charges for transporting liquid effluent from any of these barge stations in Kochi shall be the same.</p>		-		
19	<p>The contractor shall be willing to dispose an additional quantity, up to 1000 kL, for the same rate during the contact period.</p>		-		

20	<p>The tanker lorries and the sea worthy vessel and their operators shall have the valid license and appropriate certification from the authorities concerned.</p> <p>Seaworthy vessel/ barge should have a working VHF set and operational navigational aids like compass, AIS and GPS on board and shall comply with the conditions laid down in the SOP, issued by Cochin Port Trust (SI no. 41 to 52)</p>		-		
21	<p>The AIS data of the barge shall be made available to two APEP officials for continuous and real-time monitoring of the barge movement.</p>		-		
22	<p>A video (720p or 1080p) of the sea disposal, having timestamp, coordinates and speed shall be recorded for each trip (using GPS enabled cameras such GoPro) and uploaded in Google Drive immediately on return of the barge, for offline verification by APEP.</p>		-		
23	<p>The Contractor shall record the GPS track of barge for each trip, with time stamp, coordinates and speed and furnish to APEP after each disposal trip for offline verification.</p>		-		

24	The bidder shall be a reputed firm with minimum 3 years experience in doing similar job/ transportation using barges and shall produce documentary evidence and relevant certifications.		-		
25	The major constituent of the liquid effluent is common salt (sodium chloride)		-		
26	Towards random and surprise audit, APEP may depute its representative to accompany the barge to confirm and certify that the disposal to sea follows stipulated regulations and is as per the PO. Transportation of APEP representative deployed for random audit also comes under the scope of the contractor.		-		
27	APEP representatives as decided by APEP will monitor safe transportation of effluent from APEP to barge. The party shall arrange an AC car with driver, for the conveyance of APEP representative entrusted with the activity. This vehicle should reach APEP, prior to movement of tanker lorries to barge loading station. APEP representatives shall be dropped in APEP /places in Ernakulam District, after completing effluent transfer to barge.		-		

28	<p>The tanker lorries arranged by the contractor shall be compatible for handling common salt solution. Contractor has to ensure that the engaged tanker lorries are empty, clean and free of any chemical/oil, before loading of effluent from APEP to avoid contamination. APEP representatives will inspect the tankers before transferring effluent into them. The pH shall be around 7. If pH is outside the acceptable limits, the contractor has to arrange for neutralizing, at his own cost.</p>		-		
29	<p>The chambers, lids, flanges and valves of tanker lorries shall be absolutely leak tight to avoid any spillage of effluent during transportation.</p>		-		
30	<p>The contractor should ensure no spillage of effluent while pumping from effluent pit to tanker lorries, during road transportation from APEP to the barge loading point and while pumping from tanker lorries to barge/ seaworthy vessel.</p>		-		

31	<p>The barge/seaworthy vessel arranged should be compatible for handling common salt solution. The contractor has to ensure that the engaged seaworthy vessel/ barge is empty, clean and free of any chemical/oil, before receiving liquid effluent from tanker lorries.</p>		-		
32	<p>The contractor will inspect the vessel and check the pH of the wash water in barge tanks, each time before transferring of liquid effluent from tanker lorries to barge. The pH should be around 7. If pH is outside the acceptable limits, the contractor has to arrange for cleaning/neutralizing, at his own cost.</p>		-		
33	<p>All components of the tanker, sea-going vessel, such as pipes, valves, lids, closures, chambers and compartments, shall be leak-tight to avoid leakage/spillage. Any damage caused by leakage/ spillage/ accident, once the effluent is taken out of APEP premises and is in transit, resulting in a claim by a third party, shall have to be addressed and settled by the contractor. APEP/VSSC, ISRO shall not be a party to any dispute.</p>		-		

34	<p>The tanker lorries and the sea worthy vessel and their operators shall have the valid license and appropriate certification from the authorities concerned.</p> <p>Seaworthy vessel / barge should have a working VHF set and operational navigational aids like compass, AIS and GPS on board and shall comply with the statutory norms.</p>		-		
35	<p>APEP shall not be responsible for the loss of life of the contractor's personnel or for the damage to the contractor's property at the time of execution of the contract at our premises or outside our premises, due to natural calamities / accidents / explosion / riot etc.</p>		-		
36	<p>In the event of damages to APEP property or injury to personnel of APEP due to the negligence from contractor's part, the responsibility shall solely rest with the contractor.</p>		-		
37	<p>ISRO has necessary approvals for disposal of the effluent into sea at a distance beyond 10 km from coastline. However, this contract insists that the effluent shall be disposed in sea only beyond 15 km from the coastline, with the barge continuously moving.</p>		-		

38	Each time and whenever required, necessary approval from Port Trust, Immigration Authority, International Sea port, Kochi and Coast Guard for disposal of the effluent into the sea shall be obtained by the Contractor at their own cost.		-		
39	Pro-rata payment shall be made for each lot of effluent disposed, after satisfactory completion of the disposal work and approval by the Department. Payment will be made within 15 days of receipt of the bills and print copies of GPS track records of barge for each trip, with time stamp, coordinates and speed and their verification along with the uploaded video.		-		
40	VSSC reserves the right to counter offer L1 rates / L1 negotiated rate, with other technically suitable vendors in the sequence of L2, L3 till one more vendor accepts L1 rate. In case of two vendors, splitting of order with L1 rate will be in the ratio of 60% (L1) and 40% (L2). In case, L1 rate is not agreed by any of the qualified vendors, 100% shall be awarded to L1 Vendor.		-		



41	The following procedures are to be followed by barges operating in Cochin harbor engaged in discharging waste water/ effluent to sea.		-		
42	The vessel should have a valid license for sea going and should carry sufficient numbers of LSA and communication devices.		-		
43	Written permission to be obtained from DC and HM for the barge before commencement of operation		-		
44	Permission to be obtained from Cochin Port Control either on VHF Ch. 15 / 16 or by telephone 0484-2582525 or 0484-2667105 before casting off from Jetty.		-		
45	The sea going activity should be carried out only during day.		-		
46	All ships and dredgers are to be kept informed of the barge movement to Port Control. Barge Master to be informed about movements of vessels in the channel and harbor.		-		
47	Barge / seaworthy vessel should have a working VHF set on board and adequate operational navigational aids like compass, AIS, GPS, and Binoculars for safe navigation in the outer channel.		-		
48	The barge should wait at Vypin Gut for clearance.		-		

49	The barges should proceed on the Southern edge of the channel without causing any inconvenience to dredgers and ships which can only safely navigate within the channel and not to cross the channel ahead of an oncoming ship or dredger.		-		
50	The barge can safely leave the channel and proceed South after passing No. 11 buoy outbound and should go outside parallel to the line of Green buoys and proceed with caution to the FW buoy. Same route to be followed inbound too.		-		
51	On passing fairway buoy go another 1 km for commencing discharge. The coordinates to 15 km from nearest coastline (Puthu Vypin) is 09° 57.5' N 076° 05.1' E. Keep moving slowly at about 3 knots to spread the discharge over a large area.		-		
52	Master must report leaving / entering channel to the Port Control. Care should be taken not to get in the way of other traffic in the channel.		-		
53	In case of emergency or in doubt, the Port Control to be contacted.		-		
54	Contractor has to abide by the standard operating procedure issued by Cochin Port Trust, from time to time for the effluent disposal at sea.		-		

## Document : Scope of work

### Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Party shall participate in the pre-bid meeting arranged by VSSC for any technical clarifications on bid.		-		

### Supporting Documents required from Vendor

**1. Documentary evidence and relevant certifications for 3 years experience in similar job/transportation using barge**

**2. Price break up in PDF format**

5 additional documents can be uploaded by the vendor

## C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Taxes and other costs,	Yes / No / Explain	
2	Security Deposit (Applicable if Offer Value is Rs. 5 Lakhs or above. MSME/NSIC Units are NOT EXEMPTED from the payment of SD. Bank Guarantee @ 3% of Order Value valid till 60 days from the date of supply to be submitted. Mandatory compliance required. Only Government Bodies/PSUs/PSEs can submit Indentity Bond in lieu of BG. In the event of non-performance of contractual obligations, SD will be forfeited).	Yes / No / Explain	
3	Delivery Terms.	Yes / No / Explain	
4	Delivery Period (Order shall be valid for Two Years)	Yes / No / Explain	
5	Liquidated Damages (Applicable beyond the delivery period mentioned in this tender @ 0.5% per week or part thereof on the undelivered portion subject to a maximum of 10% of the contract value. Mandatory compliance required).	Yes / No / Explain	
6	Payment Term: (Pro-rata payment against each lot of effluent disposed, after satisfactory completion of the disposal work and approval by the department)	Yes / No / Explain	
7	PO Placement Address (with Name and Contact Details of sales person concerned).	Yes / No / Explain	
8	Any Other Terms	Yes / No / Explain	
9	Offer Validity (120 days)	Yes / No / Explain	
10	VSSC reserves the right of acceptance of the whole or any part of the tender or portions of the quantity offered and the tenderers shall supply the same at the rates quoted. Confirm Acceptance.	Yes / No / Explain	

## C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	COLLECTION AND DISPOSAL OF LIQUID EFFLUENT OF APEP	10000.00 KL		-		
1.1	COLLECTION AND DISPOSAL OF LIQUID EFFLUENT OF APEP - Transportation	160.00 Hrs		-		
1.2	COLLECTION AND DISPOSAL OF LIQUID EFFLUENT OF APEP - Transportation	40.00 Trips		-		