



TRAVANCORE TITANIUM PRODUCTS LIMITED
Kochuveli, Thiruvananthapuram 695 021
email: contract@ttpltd.in

Notice Inviting Tender

CD/CN/NC-06/Stack Emission/RT/S&E/2025-26

09.06.2025

Sealed tenders are invited from registered/experienced Contractors in prescribed format for the work as per the schedule attached. The Tender Form can be had from the office of the undersigned between 9.00 a.m and 3.00 p.m on all working days except Saturdays on remitting the Tender Form cost. Tender document can also be downloaded from our website www.travancoretitanium.com and shall submit the Tender along with DD against the Tender Form cost & EMD in favour of Travancore Titanium Products Limited payable at Thiruvananthapuram. The bids will be opened at the date and time given below in the presence of the tenderers present at that time.

The tender shall be enclosed in an envelope, sealed and superscripted with **"TenderNo.&Date, Due Date and the Name of Work.** The same shall then be forwarded to the **"Head of Department (Commercial), Travancore Titanium Products Limited, Kochuveli P.O, Thiruvananthapuram, Kerala, Pin.695 021".**

Name of work: "Measurement of Stack Emission, Air quality & Sound Level Monitoring."

EMD : Rs. 2,550/- (Refundable)

Tender Form Cost :Rs. 300/- +GST @18% (Total Rs.354/-).

Sealed Tenders will be received at our office on all working days and the due date of submitting the same is on **20.06.2025** at 12.00 noon. Tenders received after the due date & time will not be accepted. Fax/email offers also will not be accepted.

The bids will be opened at 2.00 pm on **20.06.2025** in the presence of the Tenderers present at the time.

For TRAVANCORE TITANIUM PRODUCTS LTD.

Head of Department (Commercial)

Encl: Proforma & Work schedule

Signature of the Tenderer:



TRAVANCORE TITANIUM PRODUCTS LIMITED
Kochuveli, Thiruvananthapuram 695 021
email: contract@ttpltd.in

Tender Notice

CD/CN/NC-06/Stack Emission/RT/S&E/2025-26

09.06.2025

Name of work: "Measurement of Stack Emission, Air quality & Sound Level Monitoring."

Due date: 20.06.2025

1. **Scope of work:** Measurement of Stack Emission, Air Quality, and Sound Level Monitoring. Provide necessary man power services, expert supervision, testing equipment, sample collection, testing and evaluation of the environmental parameters as per EP Act 1981 and Hazardous Waste Management 1999/2000. Reading should be taken when the equipment/machinery is fully functioning. All equipment, tools etc used for the work shall be appropriate type and size for its safe working limit. Monitoring should be done once in every month in consultation with officer in charge.
2. **Quantity** : Sampling & testing on monthly basis.
3. **Completion Period** : One year from the date of issue of Work Order.
4. **Technical Details** : As enlisted below.

Description	Location	Parameters to be Checked	Recommended Test Method	No. of points/ stack
Ambient Air Quality Monitoring	Calciner Old Plant Area	Suspended Particulate Matter ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 4: 1999 RA 2014	1
		SO ₂ ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 2: 2001 RA 2017,	
		NO ₂ ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 6: 2006 RA 2017	
Ambient Air Quality Monitoring	Calciner New Plant Area	Suspended Particulate Matter ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 4: 1999 RA 2014	1
		SO ₂ ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 2: 2001 RA 2017,	
		NO ₂ ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 6: 2006 RA 2017	

Signature of the Bidder:

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Description	Location	Parameters to be Checked	Recommended Test Method	No. of points/ stack
Ambient Air Quality Monitoring	Digester Area New Plant Area	Suspended Particulate Matter ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 4: 1999 RA 2014	1
		SO ₂ ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 2: 2001 RA 2017,	
		NO ₂ ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 6: 2006 RA 2017	
Ambient Air Quality Monitoring	Packing Section	Suspended Particulate Matter ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 4: 1999 RA 2014	1
		SO ₂ ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 2: 2001 RA 2017,	
		NO ₂ ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 6: 2006 RA 2017	
Ambient Air Quality Monitoring	Furnace Area In SAP	Suspended Particulate Matter ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 4: 1999 RA 2014	1
		SO ₂ ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 2: 2001 RA 2017,	
		NO ₂ ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 6: 2006 RA 2017	
Stack Emission	Digesters (N/P)	Particulate Matter (mg/Nm^3)	IS 11255 Part1 : 1985 RA 2014	8
Stack Emission	BP Mill 1 BP Mill 2 BP Mill 3	Particulate Matter (mg/Nm^3)	IS 11255 Part1: 1985 RA 2014	3
		SO ₂ ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 2: 2001 RA 2017	
Stack Emission	Mukund Mill 1	Particulate Matter (mg/Nm^3)	IS 11255 Part1 : 1985 RA 2014	1
Stack Emission	Mukund Mill 2	Particulate Matter (mg/Nm^3)	IS 11255 Part1 : 1985 RA 2014	1
Stack Emission	Gas Cleaning Plant (O/P)	Particulate Matter (mg/Nm^3)	IS 11255 Part1 : 1985 RA 2014	1
		SO ₂ (mg/Nm^3)	IS 11255 Part2 : 1985 RA 2014	
		CO (mg/Nm^3)	IS 13270: 1992 RA 2014	

Description	Location	Parameters to be Checked	Recommended Test Method	No. of points/ stack
Stack Emission	Gas Cleaning Plant (N/P)	Particulate Matter (mg/Nm ³)	IS 11255 Part1 : 1985 RA 2014	1
		SO ₂ (mg/Nm ³)	IS 11255 Part2 : 1985 RA 2014	
		CO (mg/Nm ³)	IS 13270: 1992 RA 2014	
Stack Emission	Sulphuric Acid Plant	SO ₂ (mg/Nm ³)	IS 11255 Part2: 1985 RA 2014,	1
		Acid Mist(mg/Nm ³)	EPA 8	
Stack Emission	Package Boiler	Particulate Matter (mg/Nm ³)	IS 11255 Part1 : 1985 RA 2014	3
		SO ₂ (mg/Nm ³)	IS 11255 Part2 : 1985 RA 2014	
		CO (mg/Nm ³)	IS 13270: 1992 RA 2014	
Sound Level Monitoring		dB(A), dB(B)	As per KSPCB Norms	2 (Day & Night)

5. **Price:** Rate per test as per price proforma shall be quoted in figures and words at the specified spaces provided failing which the bid is liable to be rejected. In case of any discrepancy/ difference between rate in figures and words only the rate in words will be accepted.
6. **Period of Contract:** The contract period is one year from the date of issue of Work Order. The contractor is liable to extend the service up to the finalization of the next tender at the existing work order rate or the rate finalized in the new tender, whichever is the lower, for a period of three months.
7. The tenderer must have **valid ESI, and P.F, MSME registration** if applicable for participating in the tender.
 - a. If the Bidder is not covered under PF Act, a self Declaration is to be submitted along with the Tender in Bidder's Letter Head.
 - b. If the bidder is not covered under ESI Act, CAR (Contractors All Risk) Policy for the workers has to be submitted for the entire period of contract, before awarding the contract. Declaration to be submitted along with the Tender in Bidder's Letter Head.

8. Pre Qualification Criteria:

Signature of the Bidder:

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- i. Experience of having successfully completed similar works as per the scope of works.
In support of this, tenderer should submit the **copy of such work orders**.
 - ii. The bidders with whom Government transactions have been banned/black listed/suspended due to any reason will not be eligible to participate in the tender. The self declaration as **Annexure A** to be submitted in the letter head of bidder in proof of the same.
9. The work should be completed within the period mentioned in the scheduled from the date of issue of work order.
10. **The rate quoted shall be exclusive of GST and the % of GST applicable should be mentioned at the space provided in the price proforma. If the bidder is below the threshold limit of GST that should be clearly mentioned at the space provided for GST. No subsequent claim will be entertained.**
11. It is no binding on the company to accept the lowest offer. The company reserves the right to cancel/postpone the tender or to reject any or all offers without assigning any reason.
12. The bidder shall visit the site; assess the work and clear doubts with the Officer – in – charge before quoting and submitting the tender. Enhancement of the amount during the course of work will not be allowed. Total rate will be considered for arriving the L1 rate.
13. The company is no way responsible for any loss or damage to the materials entered in TTPL campus by the contractor.
14. The work shall be done monthly. Requirement may vary and the analysis should be done according to the instruction from Office – in – charge.
15. Payment will be made monthly with the recommendation of the officer in charge.
16. Bids should bear the signature of the bidder in all pages.
17. Conditional Bids shall not be considered.
18. The tenderer should remit the Earnest Money Deposit (EMD) and Tender Form Cost mentioned in this document by means of DD or can remit cash at TTP's Cash Counter (if the amount is below Rs.10,000/-) and enclose the proof obtained thereof (Cash Receipt) along with the tender. Other modes of remittance will not be accepted.
19. Tenders without remitting EMD and Tender cost will be rejected.

20. If any irregularity or fraudulent behavior is noticed on part of the contractor / his agents /representatives or the crew of the vehicle engaged by the contractor for the performance of the contract, the company reserves the right to take all suitable action deemed fit against the contractor and those concerned.
21. The Company reserves the right to cancel the work order forfeiting security deposit if the work is not started within 10 days from the date of receipt of work order and also to terminate the contract at any time if the work is not done with proportionate progress to the satisfaction of the company officials and in all such cases the company will be at liberty to get the work done in in any manner that the company thinks fits and all losses and damage sustain by the company in this regard will be recovered from contractor and his assets.
22. The tender must be firm for a period of three months from the date of opening of the tender or till the tender is decided, whichever is earlier during which period the bidder will not be free to withdraw the tender. Any such withdrawal will entail forfeiture of the Earnest Money Deposit(EMD) and also result in the tenderer being made liable for the losses and damages sustained by the company in rearranging the work.
23. Canteen charges, if applicable will be deducted from the contractor's bill as fixed by the canteen authorities.
24. The contractor should strictly adhere to the Safety Rules prevailing in the company failing which penalty are decided will be imposed. It is entirely the contractor's responsibility to provide all safety equipment wherever necessary to their workmen. The Company is in no way responsible for any injury, disability or death of contractor's workmen due to non-compliance of safety regulations.
25. **Validity of rates:** The quoted rate must be valid for a period for 90 days from the date of opening of the tender and till the completion of the work if the contract is awarded.
26. **Security Deposit:**The successful Tenderer should remit 5% of the contract value as security Deposit within 15 days from the date of issue of work order. The security deposit will not carry any interest and will be refunded after the completion of all contractual obligations including guarantee period. On default of the tenderer to remit the Security Deposit and sign the Agreement, the EMD withstand forfeited and if any loss or damage is sustained by the company in this regard, the same will also be recovered from him. The SD amount will be released after the successful completion of all contractual obligations including the Guarantee Period.

27. If the Successful Bidder fails to remit SD and execute agreement within the stipulated period, Company have the right to cancel the work order awarded to the successful bidder and the work will either be executed by L2 bidder or any other source at the risk and cost of the successful bidder, if necessary.
28. **Performance Agreement:** The contractor should execute an agreement on stamp paper worth Rs.200/-as per the proforma provided by TTPL, if the Work Order amount exceeds Rs. 1 lakh immediately from the date of remittance of Security Deposit and start work after remitting the SD. No interest will be paid for SD.
29. **Jurisdiction:** Any legal proceeding or suit against the Company arising out of or in connection with the tender shall be filed or instituted in a court having jurisdiction in the city of Thiruvanthapuram, Kerala.
30. **Liquidated damages:** In case of any delay in the execution of the Order beyond the stipulated date of work schedule including any extension permitted in writing, the TTPL reserves right to recover from the contractor a sum equivalent to 0.5% of the total value of the delay for each week of delay and part thereof subject to a maximum of 10% of the total value of the Order. Alternatively, the Company reserves the right to execute the work from elsewhere at the sole risk and cost of the contractor and recover all such extra cost incurred by the company in execution of work by the above procedure.
31. Company reserve the right to accept/reject any of the tender after evaluation with or without assigning reason no matter whether a Tenderer has quoted the lowest rate and also have the right to cancel the Work Order forfeiting Security Deposit if the work is not started as per the instructions of the Officer – in – charge and also to terminate the contract at any time if the work is not done with proportionate progress to the satisfaction of the Company officials and in such cases, the company will be at liberty to get the work done in any manner that the Company thinks fits and all losses and damage sustain by the Company in this regard will be recovered from the contractor and his assets. All questions/disputes arising out or in connection with this shall be decided by the Managing Director of the company and his decision thereof shall be final and binding to all tenderers.
32. All statutory deductions will be made from the contractor's bill as per rules.
33. In case of any matters pertaining to this tender which are not incorporated /specified there in, in such cases guidelines of CVC/Kerala store Purchase Manual shall be applicable.

34. Tender cost: Rs.300/- plus GST@18%(Total Rs.354/-)

35. EMD: Rs.2,550/- (Refundable)

36. Documents to be Submitted:

- i.) Tender document duly signed by the bidder in all pages
- ii.) Proof of Tender fee and EMD remittance
- iii.) Copy of GST,PF and ESI, MSME registration(if applicable)
- iv.) As per clause 7(a) if applicable
- v.) As per clause 7(a) if applicable
- vi.) Proof of Experience as per clause 10 i
- vii.) The bidders with whom Government transactions have been banned/black listed/suspended due to any reason will not be eligible to participate in the tender. The self declaration as **Annexure A** to be submitted in the letter head of bidder.

37. Due Date: 20.06.2025 at 12 noon.

for TRAVANCORE TITANIUM PRODUCTS LTD



Head of Department (Commercial)

PARTICULARS OF TENDERER

1. Name of the Bidder :
2. (a) Registered office address of the Bidder :
- (b) Address for correspondence :
3. Mobile Nos. :
4. E-mail address :
5. Status of the tenderer
(Individual, Prop. firm, Partnership, Ltd. Company) :
6. Registration No. :
7. Year of establishment :
8. Permanent Account No. (PAN issued by Income Tax Dept.) :
9. GST Registration No. :
10. ESI Registration No. :
12. PF Registration No. :
13. MSME No. (if applicable) :
13. Name and address of Proprietor/ Partners/ Directors :

Declaration

We confirm that we have read and understood all tender conditions and we accept all tender conditions in its entirety.

Date :

Signature :

Name of Person signing :

Tenderer's Name and address with seal :

PRICE PERFORMA

Name of work: ***“Measurement of Stack Emission, Air quality & Sound Level Monitoring.”***

Tender No. **CD/CN/NC -06/Stack Emission/RT/S&E/2025-26** dated **09.06.2025**

I have read and understood all the tender conditions and work schedule the tender in its entirety and my lowest offer to carry out the work as per the tender is:

My lowest rate for the above work is as follows:

Description	Location	Parameters to be Checked	Recommended Test Method	Rate Per Test (Rs.)	GST (%)
Ambient Air Quality Monitoring	Calcliner Old Plant Area	Suspended Particulate Matter ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 4: 1999 RA 2014		
		SO ₂ ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 2: 2001 RA 2017,		
		NO ₂ ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 6: 2006 RA 2017		
Ambient Air Quality Monitoring	Calcliner New Plant Area	Suspended Particulate Matter ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 4: 1999 RA 2014		
		SO ₂ ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 2: 2001 RA 2017,		
		NO ₂ ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 6: 2006 RA 2017		
Ambient Air Quality Monitoring	Digester Area New Plant Area	Suspended Particulate Matter ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 4: 1999 RA 2014		
		SO ₂ ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 2: 2001 RA 2017,		
		NO ₂ ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 6: 2006 RA 2017		
Ambient Air Quality Monitoring	Packing Section	Suspended Particulate Matter ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 4: 1999 RA 2014		
		SO ₂ ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 2: 2001 RA 2017,		
		NO ₂ ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 6: 2006 RA 2017		

Signature of the Bidder:

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Description	Location	Parameters to be Checked	Recommended Test Method	Rate Per Test (Rs.)	GST (%)
Ambient Air Quality Monitoring	Furnace Area In SAP	Suspended Particulate Matter ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 4: 1999 RA 2014		
		SO ₂ ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 2: 2001 RA 2017,		
		NO ₂ ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 6: 2006 RA 2017		
Stack Emission	Digesters (N/P)	Particulate Matter (mg/Nm^3)	IS 11255 Part1 : 1985 RA 2014		
Stack Emission	BP Mill 1 BP Mill 2 BP Mill 3	Particulate Matter (mg/Nm^3)	IS 11255 Part1: 1985 RA 2014		
		SO ₂ ($\mu\text{g}/\text{m}^3$)	IS 5182 Part 2: 2001 RA 2017		
Stack Emission	Mukund Mill 1	Particulate Matter (mg/Nm^3)	IS 11255 Part1 : 1985 RA 2014		
Stack Emission	Mukund Mill 2	Particulate Matter (mg/Nm^3)	IS 11255 Part1 : 1985 RA 2014		
Stack Emission	Gas Cleaning Plant (O/P)	Particulate Matter (mg/Nm^3)	IS 11255 Part1 : 1985 RA 2014		
		SO ₂ (mg/Nm^3)	IS 11255 Part2 : 1985 RA 2014		
		CO (mg/Nm^3)	IS 13270: 1992 RA 2014		
Stack Emission	Gas Cleaning Plant (N/P)	Particulate Matter (mg/Nm^3)	IS 11255 Part1 : 1985 RA 2014		
		SO ₂ (mg/Nm^3)	IS 11255 Part2 : 1985 RA 2014		
		CO (mg/Nm^3)	IS 13270: 1992 RA 2014		
Stack Emission	Sulphuric Acid Plant	SO ₂ (mg/Nm^3)	IS 11255 Part2: 1985 RA 2014,		
		Acid Mist(mg/Nm^3)	EPA 8		
Stack Emission	Package Boiler	Particulate Matter (mg/Nm^3)	IS 11255 Part1 : 1985 RA 2014		
		SO ₂ (mg/Nm^3)	IS 11255 Part2 : 1985 RA 2014		
		CO (mg/Nm^3)	IS 13270: 1992 RA 2014		
Sound Level Monitoring		dB(A), dB(B)	As per KSPCB Norms		

**** Please mention % of GST at the space provided . If not mentioned, the rate will be considered as inclusive of GST. Also if the bidder is within the threshold limit of GST the same shall be mentioned at the space.**

GST Registration No. :

EMD Remittance details :

Signature of the Tenderer :

Name & Address. :

Phone no. :

Mobile No :

Fax No :

E Mail :

Registration No. of the contractor :

Signature of the Bidder :

Name & Address :

Registration Number :

Mobile No :

E Mail :

SELF DECLARATION

Date:

From

To

The Head of Department (Commercial)
Travancore Titanium Products Limited
Kochuveli, Thiruvananthapuram,
Kerala – 695 021.

Sir,

Sub: Tender for ***Measurement of Stack Emission, Air quality & Sound Level Monitoring.***

Ref: **Tender No CD/CN/NC-06/Stack Emission/RT/S&E/25-26 dated 09.06.2025.**

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1. I/We have carefully studied the terms and conditions of the tender vide your **Tender No CD/CN/NC-06/Stack Emission/RT/S&E/25-26 dated 09.06.2025.**
 2. I/We hereby certify that we have never been banned/black listed/suspended by any of the State/UT/Central Government/ PSU organizations.
 3. In the event of any such information pertaining to the aforesaid matter found at any given point of time either during the course of the contract or at the bidding stage, my bid/contract shall be liable for truncation/cancellation/termination without any notice at the sole discretion of the company.

Yours faithfully,

Signature and Address of the Bidder.