



 **MANATEC**

# **POLLUTION UNDER CONTROL EQUIPMENTS**



**TEDI INDIA  
PRIVATE LIMITED**

# Quotation for Pollution Under Control Machine

**Greetings from TEDI INDIA PRIVATE LIMITED!!!**

**We thank you very much for giving us an opportunity to submit our quotation for PUC MACHNE (ARAI approval) your kind perusal and consideration.**

**Price details are as follows:**

Description	Device Model	Quantity	Price	GST	Total
Diesel Smoke Meter	Eco Smoke 100 BA	1	1,35,000	24,300	1,59,300

## **Terms & Conditions :**

1. PAYMENT: 100 % IN ADVANCE,
2. DEVICE HAS ONE YEARS WARRANTY FROM THE DATE OF INSTALLATION / SELLING.
3. ANNUAL MAINTENANCE COST – 7500/- PER ANNUM
4. WARRANTY DOESN'T COVER THE PHYSICAL DAMAGE/TAMPERING/MISHANDLING/THEFT/FORCE MAJEURE OF THE DEVICE AFTER THE INSTALLATION.
5. THE DEVICE CAN NOT BE TAKEN BACK AND MONEY CAN NOT BE REFUNDED AT ANY COST.
6. FROM NEXT 2 YEAR ONWARDS CALIBRATION CHARGES WILL BE APPLIED AT PREVAILING RATE, CURRENT CHARGES IS RS.2500/-
7. COST EXCLUDING TRANSPOTATION ACROSS INDIA

# Quotation for Pollution Under Control Machine

## Wire Transfer Details:

A/c Name: TEDI(INDIA)PRIVATE LIMITED  
A/c No: 50200003466898  
Bank Name: HDFC BANK LIMITED,  
Bank Branch: WEST MAMBALAM BRANCH  
IFSC Code: HDFC0000575,

In case of Cheque or DD, please make the payment in favour of TEDI(INDIA)PRIVATE LIMITED Payments are accepted only through Bank Transfer.

## THANKS & REGARDS ELUMALAI JAYARAMAN

### Fresh/Change of Address/Renewal of Authorisation/Change of Testing Person

1. Eucca Form (Fresh/ Renewal)
2. Fess Rs.5200/- (Fresh/Renewal/Change of address), Fess Rs.300/-for change of testing person/change of machineries/gas analyse/ smoke meter)Fess for late Rs-100/-
3. RTO Recommendation report (Form 2)/ (For Renewal) Committee recommendation report (Form 1) (For Fresh/ Change of address)-ref:Circular No.23/2004) 1. DTC/JTC, 2.RTO,3. TNPCB
4. ARAI Conformity of production certificate (Petrol & Diesel)
5. Current Calibration Certificate (Petrol & Diesel)
6. TNPCB Certificate
7. Land/building 3X8 Meter
8. Rent / Lease agreement
9. Municiple /Panchayat Tax receipt
10. EB Bill
11. Bulding Sketch
12. Testing persons Degree/Diploma Certificate
13. Testing persons TNPCB 2 days Training Certificate
14. Application submit before 15 days of date of expiry Authorisation (For Renewal)
15. Model pollution testing certificates (diesel & Petrol)
16. Original Authorisation (for renewal)
17. Testing person consent letter
18. Invoice of the Machineries (Gas Analyser/Smoke Meter)
19. All Xerox copies are attested by the concerned RTO
20. Photo 3 Copies owner and Testing Person/s
21. Address /ID proof of Testing person
22. Address /ID proof of Testing Person
23. Non Functioning Report (For Fresh)
24. Details of Computer with facilities of a web camera & Printer



Toll free - 1800 121 5800  
admin@tediindia.com  
www.tediindia.com/in

GROUP OF COMPANIES



## TEDI INDIA PRIVATE LIMITED

### TEDI INDIA PRIVATE LIMITED

No. 33/14a, Jubilee Road,  
West Mambalam,  
Chennai - 600 033.  
Tamil Nadu, India.  
P - 044 2489 0217

FACTORY

No.18, Self Help Industrial Estate,  
Keelkattalai,  
Chennai - 600 117.  
Tamil Nadu, India.  
P - 044 3200 3130

Incase of any queries, contact :

#### Head of Department

Elumalai Jayaraman - 95000 03130  
Sundar Subramanian - 95512 93130

#### Sales & Marketing

Dilip Kumar - 95517 43130  
A Velayutham - 81444 40000

#### Technical Support

Vetrivel - 91766 54852  
95512 63130

#### Administration

95510 63130  
95510 73130

# Petrol Gas Analyser



Model : Eco Gas 200



- ⌘ DC Operation
- ⌘ PC Interface
- ⌘ Leak Check
- ⌘ Petrol / CNG / LPG Selection

## PC Interface (Optional)



### Test Report (PC Printout)

TRANSPORT DEPARTMENT		FORM (EMISSON UNDER CONTROL TESTING STATION) (Part 1124/1125)	
[Stamp]		<b>High Tech Wheel Care</b> 100 Feet Road, Madhapur, Post:Hyderabad-500084 Ph :+91 40 224855	
<b>EMISSION TEST CERTIFICATE</b> Registering Authority / License No. : 3630			
Job No. : 22504	Vehicle Make : Honda	Fuel : Petrol	
Serial No. : 020622	Vehicle Model : Honda Civic	Catalyst : NO	
Clst. Name : Ravikumar	Vehicle Type : Four Wheeler	Test Date : 08/07/2014	
Vehicle No. : DV07-38-6683	Engine Type : 4 Stroke	Test Time : 11:25:06 AM	
Make/Mod. : 1200	Engine No. : 1442021	Chassis No. : 338144	
Regn. Date : 16/08/2010	Brand : NO	Beats Size-II : Yes	
<b>Test Result : IDLING</b>		<b>Photo of Vehicle</b>	
Parameter	Reference	Actual Reading	
CO (%)	0.1%	0.12	
CO2 (%)	14.4	14.4	
HC (PPM)	300	300	
NOx (PPM)	50	50	
AFR	14.7	14.7	
Lambda	1.47	1.47	
Temp	150	150	
Leak	0.05	0.05	
Result	PASS		

Thank you for keeping your Vehicle clean and Environment Green

Certified that this Vehicle's CO Emission level conforms to the standards prescribed under Rule 112(2) of CMV Rules 1989.

Seal of Testing Station      Name of Testing Person      Authorized Signature

Thank you for using MANATEC Gas Analyser

## Salient Features

- Conforms to ISO 3930
- Non dispersive Infrared (NDIR) technology
- 3 methods of Engine RPM measurement facility - Inductive pickup, Battery & Accelerometer based
- 7 Segment LED display
- Automatic condensate discharge
- Automatic zero calibration
- Digital span calibration
- USB communication for PC interface
- Easy update of software in the field through USB port
- NOx measurement (Optional)
- With DC operation facility for "Road tests" using vehicle battery
- Display of Lambda / AFR / PEF
- Petrol / CNG / LPG selection
- Separate Indication for battery Low / High voltage
- Electronic leak check facility
- Gas scrubber for cleaning of impure particles
- HC residue test
- Easy diagnostic options for field service

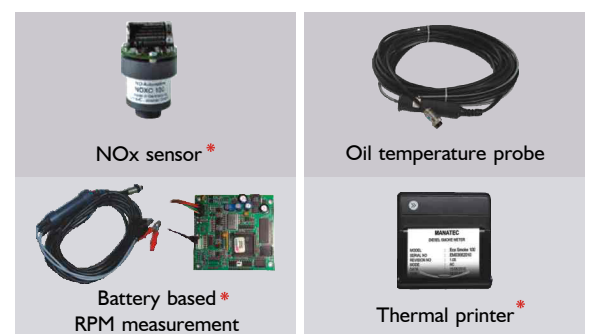
## Standard Accessories



## Technical Specification

Measurement Parameters	Range	Resolution
CO (Carbon Monoxide)	0 - 15%	0.01%
CO <sub>2</sub> (Carbon Dioxide)	0 - 19.9%	0.1%
HC (Hydro Carbon)	0 - 20000 PPM	1 PPM
O <sub>2</sub> (Oxygen)	0 - 25%	0.01%
NOx (Oxides of Nitrogen)	0 - 5000 PPM	1 PPM
AFR	0 - 30%	0.01%
Lambda	0.20 - 2.00	0.001
Engine RPM (Battery based)	400 - 9990 RPM	10 RPM
Engine oil temperature	0 - 150°C	1°C
Operating temperature	+ 5°C to + 45° C	
Measuring gas intake	3 litres / minute	
Leak test	Electronic	
Condensate discharge	Automatic	
Response time	< 15 Sec. (for sample probe length of 3m)	
Warm-up time @ 25°C & above	< 3 minutes	
Zero calibration	Automatic	
Span calibration	Digital	
Power supply	12V DC ± 2V battery 100-265V AC, Single phase, 50-60 Hz	
Power	25W	

## Optional Accessories



\* To be ordered along with machine. Field implementation not possible.

# Diesel Smoke Meter

Model : Eco Smoke 100



- ⊞ DC Operation
- ⊞ PC Interface
- ⊞ Free Acceleration Test

## PC Interface (Optional)



### Test Report (PC Printout)

FORM FOR EMISSION LABOR CONTROL TESTING STATIONS (EPA 1018-101-02)		
	<b>High Tech Wheel Care</b> 110 East Road, Madhapur, Hyderabad - 500084, Ph : +91 43 224804	
Registration Authority License No. - 5001		
EMISSION TEST CERTIFICATE		
Job No. : 2805	State : Madhya Pradesh	
Serial No. : 486	Model : Logan	
Client Name : Anil Kumar	Vehicle Type : Four Wheeler	
Vehicle No. : UP01 58 2601	Roll No. : 95750	
Test Date : 06/08/2014	Test Time : 10:25:25 AM	
Vehicle Target Data		
Min RPM : 500	Max RPM : 4000	
Oil Temperature : 150C		
Test Data		
5 Sec. Opacity @ Value	Avg. Min. Time	Oil Temp.
1. 35.5	1.80	150
2. 35.5	1.80	150
3. 35.5	1.80	150
4. 35.5	1.80	150
Avg. 35.5 1.80		
RESULT <b>PASS</b> Thank you for keeping your Vehicle clean and Environment Green. Certified that this vehicle's Smoke Emission level conforms to the standard prescribed under Rule 15(2) of CMV Rules 1986. Permissible limit of k-Value is 2.45 l/m (Opacity +5%)		
Seal of Testing Station      Name of Testing Person      Authorized Signature Thank you for using MANATEC Diesel smoke meter		



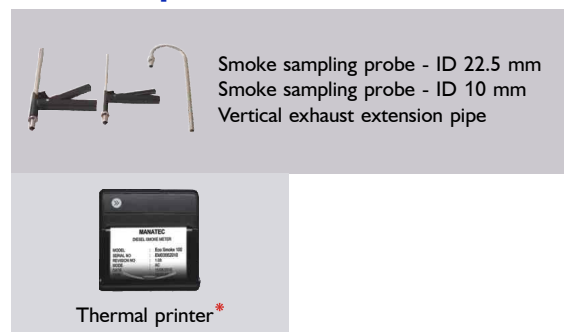
## Salient Features

- Conforms to IS : 14553 - derived from ISO 11614 : 1999
- Measures smoke opacity of diesel vehicles in % opacity and K value
- Measurement principle : Partial flow, optics based on folded geometry
- Suitable for free acceleration test
- Engine RPM measurement - vibration sensor based and Battery based (Optional)
- Engine oil temperature measurement
- Operates on 230V AC (or) 12V DC power supply
- Portable, Compact & light weight design, suitable for "Road tests" using vehicle battery
- Low & High voltage indication for battery operation
- Automatic Zero and Span calibration
- Automatic Pressure regulation and moisture separation
- Handheld, Menu driven LCD remote control unit
- Pass / Fail indication and emission limit in printout
- Vehicle no., vehicle specification, operator name and test data in printout
- RS232C serial port for PC interface

## Standard Accessories



## Optional Accessories



\* To be ordered along with machine. Field implementation not possible.

## Technical Specification

Measurement Parameters	Range	Resolution
Opacity	0 – 99.9 %	0.10 %
K-value	0 – 9.99 m <sup>-1</sup>	0.01 m <sup>-1</sup>
Linearity	± 0.1 m <sup>-1</sup>	
Repeatability	± 0.1 m <sup>-1</sup>	
Zero & Span drift	± 0.1 m <sup>-1</sup>	
Response time – Physical	< 0.4 seconds	
Response time – Electrical	< 1 millisecond	
Warm up time @ 25°C and above	< 7 minutes	
Engine RPM (Battery based)	400 ~ 9990 RPM	10 RPM
Oil Temperature	0 - 150° C	1° C
Operating Temperature	+ 5°C to + 50°C	
Smoke measuring cell length	215 mm (430 mm folded length)	
Power supply	12V DC ± 2V battery 100-265V AC, Single phase, 50-60 Hz	
Power	300W AC / 100W DC (without heater)	

## ENGINE RPM METER (Optional) for Smoke Meter & Gas Analyser



### Salient Features :

- Accelerometer based RPM measurement
- Compatible for Diesel & Petrol vehicles
- The Engine RPM meter allows easy measurement of RPM
- Use of multiple acquisition systems

### Technical Specification :

- RPM measurement range : 400 - 9990 RPM
- Resolution : 10 RPM
- Display : Four digit LED display