

Xenocode Technologies Pvt. Ltd.

Laboratory Information Management System

Flat No-402, Vishvanath Apartment, Jijamata Nagar, Dighori NAGPUR, MAHARASHTRA-440034

Phone: +91-8080607122 Email: vgaidhane5@gmail.com

STACK EMISSION MONITORING DATA RECORDING SHEET

| 1. | Sample ID: | SA/2105/0125 | | | 2. | 2. Instrument ID: DFD12 | | | | | | | |
|--|---|--------------|-------------------|-------------|------|-------------------------------|------------------------------|----------|----|-------|----------|---------|----|
| 3. | Date & Time of Sampling:24/06/21 | | | | | | | | | | | | |
| 4. | Stack Identity:32 | | | | | | | | | | | | |
| 5. | Stack attached to:32 | | | | | | | | | | | | |
| 6. | Stack height (m):32 | | | | | | | | | | | | |
| 7. | Stack diameter/Duct Dimensions at sampling point (m):32 | | | | | | | | | | | | |
| 8. | Height of port hole from ground level (m ²):55 | | | | | | | | | | | | |
| 9. | Are 8D and 2D Criteria met: Yes / No:True | | | | | | | | | | | | |
| 10. | Material of Const | ruction | :323 | | | | | | | | | | |
| 11. | Stack shape at top | :66 | | | | | | | | | | | |
| 12. | Fuel used: i) Type | e:65 | | | | ii) | Consu | mption: | 66 | | kg/c | d or Ud | |
| 13. | Stack Area (A) (m | n²):77 | | | | | | | | | | | |
| 14. | WhetherSampling port and platform exists? Yes / No:True | | | | | | | | | | | | |
| 15. | Whether Air pollution control equipment exists? Yes /No (Specify)True | | | | | | | | | | | | |
| 16. | Barometric Pressure (Ba): 323.000 mm Hg | | | | | | | | | | | | |
| 17. | Fuel Gas composition: CO2%:22.000 O2%:34.000 CO%:45.000 N2%:56.000 | | | | | | | 00 | | | | | |
| 18. | Moisture Content (M) = 323.000 % ii) Bwo: (M/100) = 23.0000 | | | | | | | | | | | | |
| 19. | Duration (h) / day | of run | of boile | r/ proce | ss:7 | 7.00 | | | | | | | |
| 20. | Ambient Tempera | ature : | 22 | 2.00 | | | o | C + 273 | = | 56 | 5.00 | | °К |
| 21. | Stack Temperatur | e(Ts): | | 12.00 | | | $^{\circ}\text{C} + 273 = 2$ | | | 23.00 | 23.00 °K | | |
| 22 | Velocity of Stack | Gas (V | ⁷): 3 |): 32.00 Pi | | | t Tube factor (K):56.0000 | | | | | | |
| 22 | 22 m/s | | | | | $C = K \times 0.2295 = 45.00$ | | | | | | | |
| | Details | | 1 | 2 | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | raverse Point distant the port, cm | nce | | | | | | | | | | | |
| | oifferential Pressure | e (ΔP) | | | | | | | | | | | |
| mm] | | | | <u> </u> | L | | | <u> </u> | | | <u> </u> | | |
| | e) Static Pressure (Ps)mmHg Ps= 234.0000 | | | | | | mmH2O/13.6 = mmHg | | | | | | |
| d) Absolute Stack Pressure $PA (Ba \pm Ps) = 345.0000$ (PA) | | | | | | | | mmI | Нg | | | | |
| e) Velocity V in m/s V=C√AP x Ts.°K | | | | | | | | | | | | | |
| f) Flue Gas Quantity (Dry) Nm³/h Q = A x V x 3600X(298/Ts) X(PA/760) X(1-Bwo) | | | | | | 4 | 56.0000 | | | | | | |



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Note =* Physical Details of Sack Provided by Customer

19. Sampling Rate for Isokinetic conditions:

| a. Nozzle Consta | nt: Area of 1 | Nozzle(mz | z) X 60 X 100 | 00 = 32.00 | 00 | | | | | |
|---|---------------|-----------|---------------|------------|-----|----|--------|-----|-------|-------------|
| b. Sampling Flow (LPM) = Velocity constant x Ta/Ts : Pv | 12.0000 | | | | | | | | | |
| c. Sampling duration in Minutes | | 23.0000 | | | | | | | | |
| d. Vacuum PV | Initial | 23.0000 | | | | | | | | |
| in mm Hg | Final | 34.0000 | | | | | | | | |
| | Average | 45.0000 | | | | | | | | |
| e. Sampling gas Temp(Tg) °K | | Initial | 34.00 | 00 Fii | nal | 56 | 6.0000 | Ave | erage | 67.000 0 |
| Thimble No:-323 | | | | - | | - | | | | - |

20. Total gas passed:(Flow Rate) x Duration= 323.0000 Liters

OR

Dry Gas Meter Reading: **Final Initial Diff** . m3

21. Gaseous Sampling Data:

| I aramicio | Flow Rate | Samplin g time in minutes (T) | ı | Barometr ic Pressure mm Hg | Reading (m ³) | | Bottle No. | Absorbing solution used | | Preservatio n Done Parameter (If Any) | | |
|---|--------------|---|-------|-------------------------------------|---------------------------|------------|---------------|-------------------------|--------------|--|------|---|
| | | | | (Ba) | Initi al | Final | Total | | Solu tion | Conc. | Vol. | |
| Carbon Dioxide (CO ₂) | 5.000 | 4 | 5.000 | 4.000 | 5.00 00 | 4.000 0 | 5.000 0 | 1 | 4 | 5.00 | 4.00 | 5 |

Vs (in liters at STP) = $R \times T \times (Ba/760) \times (298/Tg) = y$

| Document Name: Quality Formats | Approved By: | НО |
|--------------------------------|--------------|----|
| Prepared By: TM | Issued By: | QM |



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22. Sampling Data for NOx

| Vsc = (Tstd/Pstd)(Vf-Va)(Pf/Tf-Va) | - Pi/Ti) | |
|---|--|--------------------------------|
| Where, Vs = 1 (Volume of flask & vdlve in Va = 2 (Volume of absorbing soluti Pf = 3 (Final absolute pressure of fl Pi = 4 (Initial absolute pressure of fl Pstd = 6 (Standard absolute pressure Tf = 8 (Final absolute temperature Ti = 6 (Initial absolute temperature Tstd = 9 (Standard absolute temperature Vsc = Sample Volume at standard of Vsc = ()()() = 32.0 = ml 1000 = L | ion,25 ml) lask, mm Hg) lask, mm Hg) le, 760 mm Hg(29.9 of flask, oK) of flask, 0K) ature, 298.15 0K) condition (dry basis | C ., |
| Preservation Done (If Any): | | |
| Sample received in lab by: | ign: | Date: 26/06/21 |
| Probable date of report: 30/06/21 | | |
| Sampling done by: Ram Lakshman | | Sign: |
| Name and Address of Customer: M | Ionica agpur | Sample ID: SA/2105/0125 |

| Document Name: Quality Formats | Approved By: HO |
|--------------------------------|-----------------|
| Prepared By: TM | Issued By: QM |