

INDIA GLYCOLS LIMITED, LABORATORY



(NABL ACCREDITED LABORATORY)

(A unit of India Glycols Limited, an ISO: 9001, ISO: 14001, OHSAS: 18001, ISO: 22000, FSSC: 22000, SA: 8000, ISO: 50001 certified Company)

A-1, Industrial Area Bazpur Road, Kashipur
District - Udham Singh Nagar - 244713 (Uttarakhand)
Email: igllabksp@gmail.com

TEST REPORT

| | |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Test Report No: TR/SM/2019/08/22-001 | : Issued Date: 22.08.2019 |
| Issued to | : M/s India Glycols limited, Herbal Extraction Unit Plot No. 2-5, Pharma City, selaqui, Dehradun Uttarakhand |
| Sample Description | : Stack Emission |
| Sampling Location | : Boiler |
| Date of Sampling | : 05.08.2019 |
| Capacity (TPH/ KVA/ Kg/Hr) | : 4 TPH |
| Type of Stack (Metal/RCC/Brick) | : Metal |
| Shape of Stack (Circular/Rectangular) | : Circular |
| Diameter of Stack (Meter) | : 1.2 |
| Height of Stack from Ground Level (M) | : 42 |
| Type of Fuel used (HSD/FO/Coal etc.) | : Briquette |
| Fuel consumed per Hour | : -- |
| Ambient Temperature (°C) | : 31 |
| Stack Temperature (°C) | : 118 |
| Average velocity of emission (m/sec) | : 11.41 |
| Average Flow Rate (LPM) | : 17 |
| Duration of Sampling (min.) | : 36 (1000 Hrs. to 1036 Hrs.) |
| Sampling Protocol | : IS: 11255 & Customer Requirement |
| Sampling Packing & Marking | : Sealed Zip Poly bag & Plastic bottles |
| Sample Drawn By | : Mr. Satveer Yadav & Team |
| Environmental Condition | : Sunny Day |
| Date of Receipt of Sample: | : 07.08.2019 |
| Analysis Duration | : 08.08.2019 to 09.08.2019 |

| S.No | Test Parameter | Unit | Results | Limits | Test Method |
|------|----------------------------------------------------------|--------------------|---------|--------|----------------------|
| 1. | Particulate Matter (PM) @ 12% CO ₂ correction | mg/Nm ³ | 285.65 | 800 | IS: 11255 (P-1) 1985 |
| 2. | Sulphur Dioxide (SO ₂) | mg/Nm ³ | 66.85 | NA | IS: 11255 (P-2) 1985 |
| 3. | Nitrogen Oxides (as NO _x) | mg/Nm ³ | 69.47 | NA | IS: 11255 (P-7) 2005 |

Rohaan
(Rohil Kumar)
(Checked By)

End of Report



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TEST REPORT

| | | |
|---------------------------------------|---|------------------------------------------------------------------------------------------------------------------|
| Test Report No: TR/SM/2019/08/22-002 | : | Issued Date: 22.08.2019 |
| Issued to | : | M/s India Glycols limited, Herbal Extraction Unit Plot No. 2-5, Pharma City, selaqui, Dehradun Uttarakhand |
| Sample Description | : | Stack Emission |
| Sampling Location | : | DG-1 |
| Date of Sampling | : | 05.08.2019 |
| Capacity (TPH/ KVA/ Kg/Hr) | : | 750 KVA |
| Type of Stack (Metal/RCC/Brick) | : | Metal |
| Shape of Stack (Circular/Rectangular) | : | Circular |
| Diameter of Stack (Meter) | : | 0.3 |
| Height of Stack from Ground Level (M) | : | 18 |
| Type of Fuel used (HSD/FO/Coal etc.) | : | HSD |
| Fuel consumed per Hour | : | -- |
| Ambient Temperature (°C) | : | 32 |
| Stack Temperature (°C) | : | 352 |
| Average velocity of emission (m/sec) | : | 14.60 |
| Average Flow Rate (LPM) | : | 13 |
| Duration of Sampling (min.) | : | 45 (1115 Hrs. to 1200 Hrs.) |
| Sampling Protocol | : | IS: 11255 & Customer Requirement |
| Sampling Packing & Marking | : | Sealed Zip Poly bag & Plastic bottles |
| Sample Drawn By | : | Mr. Satveer Yadav & Team |
| Environmental Condition | : | Sunny Day |
| Date of Receipt of Sample: | : | 07.08.2019 |
| Analysis Duration | : | 08.08.2019 to 09.08.2019 |

| S.No | Test Parameter | Unit | Results | Limits | Test Method |
|------|---------------------------------------|----------|---------|--------|----------------------|
| 4. | Particulate Matter (PM) | gm/Kw-hr | 0.161 | 0.3 | IS: 11255 (P-1) 1985 |
| 5. | Sulphur Dioxide (SO ₂) | gm/Kw-hr | 0.089 | NA | IS: 11255 (P-2) 1985 |
| 6. | Nitrogen Oxides (as NO _x) | gm/Kw-hr | 0.165 | 9.2 | IS: 11255 (P-7) 2005 |

End of Report

Rahul Kumar
(Rahul Kumar)
(Checked By)



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TEST REPORT

| | | |
|---------------------------------------|---|------------------------------------------------------------------------------------------------------------------|
| Test Report No: TR/SM/2019/08/22-003 | : | Issued Date: 22.08.2019 |
| Issued to | : | M/s India Glycols limited, Herbal Extraction Unit Plot No. 2-5, Pharma City, selaqui, Dehradun Uttarakhand |
| Sample Description | : | Stack Emission |
| Sampling Location | : | DG-2 |
| Date of Sampling | : | 05.08.2019 |
| Capacity (TPH/ KVA/ Kg/Hr) | : | 750 KVA |
| Type of Stack (Metal/RCC/Brick) | : | Metal |
| Shape of Stack (Circular/Rectangular) | : | Circular |
| Diameter of Stack (Meter) | : | 0.3 |
| Height of Stack from Ground Level (M) | : | 18 |
| Type of Fuel used (HSD/FO/Coal etc.) | : | HSD |
| Fuel consumed per Hour | : | -- |
| Ambient Temperature (°C) | : | 33 |
| Stack Temperature (°C) | : | 355 |
| Average velocity of emission (m/sec) | : | 14.98 |
| Average Flow Rate (LPM) | : | 14 |
| Duration of Sampling (min.) | : | 44 (1510 Hrs. to 1554 Hrs.) |
| Sampling Protocol | : | IS: 11255 & Customer Requirement |
| Sampling Packing & Marking | : | Sealed Zip Poly bag & Plastic bottles |
| Sample Drawn By | : | Mr. Satveer Yadav & Team |
| Environmental Condition | : | Sunny Day |
| Date of Receipt of Sample: | : | 07.08.2019 |
| Analysis Duration | : | 08.08.2019 to 09.08.2019 |

| S.No | Test Parameter | Unit | Results | Limits | Test Method |
|------|---------------------------------------|----------|---------|--------|----------------------|
| 7. | Particulate Matter (PM) | gm/Kw-hr | 0.180 | 0.3 | IS: 11255 (P-1) 1985 |
| 8. | Sulphur Dioxide (SO ₂) | gm/Kw-hr | 0.098 | NA | IS: 11255 (P-2) 1985 |
| 9. | Nitrogen Oxides (as NO _x) | gm/Kw-hr | 0.153 | 9.2 | IS: 11255 (P-7) 2005 |

End of Report

Rahul Kumar

(Rahul Kumar)
(Checked By)



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TEST REPORT

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|---------------------------------------|---|------------------------------------------------------------------------------------------------------------------|
| Test Report No: TR/SM/2019/08/22-004 | : | Issued Date: 22.08.2019 |
| Issued to | : | M/s India Glycols limited, Herbal Extraction Unit Plot No. 2-5, Pharma City, selaqui, Dehradun Uttarakhand |
| Sample Description | : | Stack Emission |
| Sampling Location | : | DG-3 |
| Date of Sampling | : | 06.08.2019 |
| Capacity (TPH/ KVA/ Kg/Hr) | : | 1000 KVA |
| Type of Stack (Metal/RCC/Brick) | : | Metal |
| Shape of Stack (Circular/Rectangular) | : | Circular |
| Diameter of Stack (Meter) | : | 0.3 |
| Height of Stack from Ground Level (M) | : | 18 |
| Type of Fuel used (HSD/FO/Coal etc.) | : | HSD |
| Fuel consumed per Hour | : | -- |
| Ambient Temperature (°C) | : | 33 |
| Stack Temperature (°C) | : | 342 |
| Average velocity of emission (m/sec) | : | 14.48 |
| Average Flow Rate (LPM) | : | 13 |
| Duration of Sampling (min.) | : | 45 (1010 Hrs. to 1055 Hrs.) |
| Sampling Protocol | : | IS: 11255 & Customer Requirement |
| Sampling Packing & Marking | : | Sealed Zip Poly bag & Plastic bottles |
| Sample Drawn By | : | Mr. Satveer Yadav & Team |
| Environmental Condition | : | Sunny Day |
| Date of Receipt of Sample: | : | 07.08.2019 |
| Analysis Duration | : | 08.08.2019 to 09.08.2019 |

| S.No | Test Parameter | Unit | Results | Limits | Test Method |
|------|---------------------------------------------------------|----------|---------|--------|----------------------|
| 10. | Particulate Matter (PM) @ 15% O ₂ correction | gm/Kw-hr | 0.176 | 0.3 | IS: 11255 (P-1) 1985 |
| 11. | Sulphur Dioxide (SO ₂) | gm/Kw-hr | 0.053 | NA | IS: 11255 (P-2) 1985 |
| 12. | Nitrogen Oxides (as NO _x) | gm/Kw-hr | 0.133 | 9.2 | IS: 11255 (P-7) 2005 |

End of Report

Dheeraj
(Rahul Kumar)
(Checked By)



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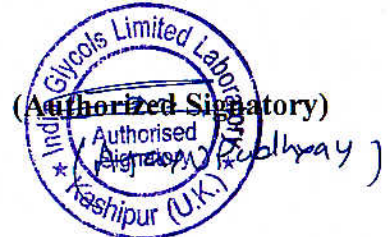
TEST REPORT

| Test Report No: TR/GW/2019/08/22-001 | | | Issued Date: 22.08.2019 | | | |
|--------------------------------------|-------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------|------------------------------|
| Issued to: | | | M/s India Glycols limited, Herbal Extraction Unit Plot No. 2-5, Pharma City, selaqui, Dehradun Uttarakhand | | | |
| Type of Sample: | | | Ground Water | | | |
| Sampling Location: | | | Borewell | | | |
| Sample Quantity: | | | 5 Ltr. | | | |
| Date of Sampling: | | | 07.08.2019 | | | |
| Sampling Protocol: | | | IS: 3025 (P-1) | | | |
| Sample Packaging & Marking: | | | Plastic Bottle Marked "1" | | | |
| Sample Drawn by: | | | Mr. Satveer Yadav & Team | | | |
| Environmental Condition: | | | Sunny day | | | |
| Date of Receipt of Sample: | | | 07.08.2019 | | | |
| Analysis Duration: | | | 07.08.2019 to 10.08.2019 | | | |
| S.No | Test Parameters | Units | Results | Specification IS:10500, 2012 | | Test Method |
| | | | | Acceptable Limit | Permissible Limit | |
| A. Physical Parameters | | | | | | |
| 1. | pH value | -- | 7.21 | 6.5 to 8.5 | No relaxation | IS: 3025(P-11) 1983 R-2002 |
| 2. | Colour | Hazen | < 5.0 | Max 5 | Max 15 | IS: 3025(P-4)1983 R-2002 |
| 3. | Total Dissolved Solids | mg/l | 248 | Max 500 | Max 2000 | IS: 3025 (P-16): 1984 |
| 4. | Turbidity | NTU | < 1.0 | Max 1 | Max 5 | IS: 3025 (P- 10) 1984 R-2002 |
| B. Chemical Parameters | | | | | | |
| 5. | Total Hardness (as CaCO ₃) | mg/l | 188 | Max 200 | Max 600 | IS: 3025(P-21) 1983 R-2002 |
| 6. | Chlorides (as Cl) | mg/l | 20.1 | Max 250 | Max 1000 | IS: 3025 (P-32) 1988 |
| 7. | Calcium (as Ca) | mg/l | 30.1 | Max. 75 | Max. 200 | IS:3025 (P-40) 1991 |
| 8. | Magnesium (as Mg) | mg/l | 6.49 | Max. 30 | Max. 100 | IS:3025 (P-46): 1994 |
| 9. | Sulphate (as SO ₄) | mg/l | 18.1 | Max 200 | Max 400 | IS: 3025 (P-24) 1986 R-2003 |
| 10. | Total Alkalinity | mg/l | 156 | Max 200 | Max 600 | IS:3025 (P-23) 1986 R-2003 |

End of Report

Rahul Kumar

(Checked by)



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| Test Report No: TR/GW/2019/08/22-001 | Issued Date: 22.08.2019 |
| Issued to: | M/s India Glycols limited, Herbal Extraction Unit Plot No. 2-5, Pharma City, selaqui, Dehradun Uttarakhand |
| Type of Sample: | Ground Water |
| Sampling Location: | Borewell |
| Sample Quantity: | 2 x 200 ml |
| Date of Sampling: | 07.08.2019 |
| Sampling Protocol: | IS : 1622; RA 2009 |
| Sample Packaging & Marking: | Sterilized Glass Bottle |
| Sample Drawn by: | Mr. Satveer Yadav & Team |
| Environmental Condition: | Sunny day |
| Date of Receipt of Sample: | 07.08.2019 |
| Analysis Duration: | 07.08.2019 to 10.08.2019 |

Microbiological Parameters

| S. No | Test Parameters | Units | Results | Test Method |
|-------|-----------------|-----------|---------|--------------------------|
| 1 | Total coliforms | MPN/100ml | < 2 | IS : 1622 – 1981; R 2009 |
| 2 | E. coli | MPN/100ml | < 2 | IS : 1622 – 1981, R 2009 |

Note: The above test results <2 MPN/100 ml is below detection limit i.e. (Absent/100 ml). So the Test sample is comply/pass as per specification IS - 10500:2012

End of Report

Rahul

(Rahul kumar)
(Checked by)



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TEST REPORT

| Test Report No: TR/WW/2019/08/22-001 | | Issued Date: 22.08.2019 | | | |
|--------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------|------------|------------------------------|
| Issued to: | | M/s India Glycols limited, Herbal Extraction Unit Plot No. 2-5, Pharma City, selaqui, Dehradun Uttarakhand | | | |
| Type of Sample: | | Waste Water | | | |
| Sampling Location: | | STP Cum ETP Outlet | | | |
| Sample Quantity: | | 2 Liter + 1 Liter | | | |
| Date of Sampling: | | 07.08.2019 | | | |
| Sampling Protocol: | | IS:3025 (P-1) | | | |
| Sample Packaging & Marking: | | Plastic Bottle Marked "1" & Glass Bottle Marked "1" | | | |
| Sample Drawn by: | | Mr. Satveer Yadav & Team | | | |
| Environmental Condition: | | Sunny day | | | |
| Date of Receipt of Sample: | | 07.08.2019 | | | |
| Analysis Duration: | | 07.08.2019 to 10.08.2019 | | | |
| S. No | Test Parameters | Units | Results | Limits | Test Method |
| A | Physical Parameters | | | | |
| 1. | pH Value | - | 7.53 | 5.5 to 9.0 | IS: 3025(P-11) 1983, R-2002 |
| 2. | Total Suspended Solids | mg/l | 80.0 | 100 | IS: 3025(P-17) 1984, R-2002 |
| B | Chemical Parameters | | | | |
| 3. | Chemical Oxygen Demand (COD) | mg/l | 76.0 | 250 | IS: 3025 (P-58) 2006 |
| 4. | Biological Oxygen Demand (BOD)@ 27°C for 3 Days | mg/l | 24.0 | 30 | IS: 3025 (P-44) 1993 |
| 5. | Oil & Grease | mg/l | < 4.0 | 10 | IS: 3025 (P-39) 1991, R-2003 |

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(Rahul Kumar)
(Checked By)



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