

(Promoted by Indian Register of Shipping)

Testing Laboratory







TEST REPORT

| | Report No. IS | SPL/EN/24-25/19262/A | Date | 30/11/2024 |
|-----|--------------------------------------|---|--------------------------|----------------------|
| 1. | Name & address of Customer | Power Mech Project Limited Talwandi Sabo Power Ltd., 3X660 Power Plant, Banawala, Mansa D | | |
| 2. | Reference No. | Your TRF Dated: 28/11/2024 (Reg | g. No. 79738) | |
| 3. | Material Identification with details | Boiler Stack: Date and Time of Sa , Qty. 1 No. | ampling: 26/11/2024 (04: | :55 pm to 05:25 pm), |
| 4. | Sample code | 79738 | 988 | |
| 5. | Date of sampling | 26/11/2024 | | |
| 6. | Date of Sample testing | 28/11/2024 To 30/11/2024 | | |
| 7. | Sampling duration (in minutes) | 30 Min. | | |
| 8. | Sampling Location | Boiler Stack (Third Unit, Unit-1) - (| 660 MW | |
| 9. | Sampling Protocol | IS:11255 (Pt-1) 1985 (RA 2014) | | |
| 10. | Type of stack | MS Circular | | |
| 11. | Stack attached to | Boiler Stack | | |
| 12. | Stack Diameter (in meters) | 7.2 | | |
| 13. | Stack height (in meters) | 275 | | |
| 14. | Type and quantity of fuel used | Coal | | |
| 15. | Instrument Code & Calibration S | Status ISSPL/INS/C/134 | | |
| 16. | Control Measures if any | - | | |
| 17. | Ambient Temperature (oC) | 26°C | | |
| 18. | Flue Gas Temperature (oC) | 133°C | | |

RESULTS

| S.No. | Test Parameters | Test Method | Results | Units | Detection Limit |
|-------|--|-----------------------------|---------|--------|-----------------|
| 1 | Particulate Matter (PM) at 6% O2 Corr. | IS 11255 (Part 1) 1985, RA: | 35.14 | mg/Nm3 | 1 |

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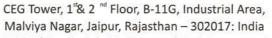
Reviewed By

Jaipur Parmeshwar Lal



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Testing Laboratory



Tel: 0141-4805672 | Email – lab@irclass.org | Website : www.isspllab.com





TEST REPORT

| Report No. | | ISSPL/EN/24-25/19262/A | ISSPL/EN/24-25/19262/A | | 30/11/2024 |
|------------|---|--|------------------------|--------|-----------------|
| S.No. | Test Parameters | Test Method | Results | Units | Detection Limit |
| 1 | | 2019 | | | |
| 2 | Sulphur dioxide (SO2) at 6% O2 Corr. | USEPA 6C: 1996/By Flue Gas Analyzer | 904.18 | mg/Nm3 | 0.3 |
| 3 | Oxides of Nitrogen (NOX) at 6% O2 Corr. | USEPA 7E: 1990/By Flue Gas Analyzer | 154.26 | mg/Nm3 | 0.2 |
| 4 | Carbon Monoxide as (CO) | USEPA 10: 1996/By Flue Gas Analyzer | 4.4 | РРМ | 0.1 |
| 5 | Carbon Dioxide as (CO2) | USEPA 3A:1989 | 10.5 | % | 0.1 |
| 6 | Oxyen as O2 | USEPA 3A:1989 | 67.8 | % | 0.1 |
| 7 | Mercury as (Hg) | USEPA 29:1996/101A:1991 | BLQ(LOQ 0.001) | mg/Nm3 | 0.001 |

BLQ= Below Limit of Quantification, LOQ= Limit of Quantification

Remark: Sampling done by ISSPL Representative (Mr. Dinesh Jangid).

End of the Report

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TEST REPORT

| | Report No. | ISSPL/EN/24-25/19262/B | Date | 30/11/2024 | | |
|-----|--------------------------------------|---|---|------------|--|--|
| 1. | Name & address of Customer | Power Mech Project Limited Talwandi Sabo Power Ltd., 3X6 Power Plant, Banawala, Mansa | | | | |
| 2. | Reference No. | Your TRF Dated: 28/11/2024 (R | Reg. No. 79738) | | | |
| 3. | Material Identification with details | Boiler Stack: Date and Time of , Qty. 1 No. | Boiler Stack: Date and Time of Sampling: 26/11/2024 (04:55 pm to 05:25 pm, Qty. 1 No. | | | |
| 4. | Sample code | 79738 | 79738 | | | |
| 5. | Date of sampling | 26/11/2024 | 26/11/2024 | | | |
| 6. | Date of Sample testing | 28/11/2024 To 30/11/2024 | 28/11/2024 To 30/11/2024 | | | |
| 7. | Sampling duration (in minute | es) 30 Min. | | | | |
| 8. | Sampling Location | Boiler Stack (Third Unit, Unit-1) | - 660 MW | | | |
| 9. | Sampling Protocol | IS:11255 (Pt-1) 1985 (RA 2014) | | | | |
| 10. | Type of stack | MS Circular | | | | |
| 11. | Stack attached to | Boiler Stack | | | | |
| 12. | Stack Diameter (in meters) | 7.2 | | | | |
| 13. | Stack height (in meters) | 275 | | | | |
| 14. | Type and quantity of fuel use | ed Coal | | | | |
| 15. | Instrument Code & Calibration | on Status ISSPL/INS/C/134 | | 4 | | |
| 16. | Control Measures if any | H | | | | |
| 17. | Ambient Temperature (oC) | 26°C | | | | |
| 18. | Flue Gas Temperature (oC) | 133°C | | | | |

RESULTS

| S.No. | Test Parameters | Test Method | Results | Units | Detection Limit |
|-------|-----------------|---------------|---------|-------|-----------------|
| | ocity of Gas | CPCB Emission | 26.5 | .m/s | Not Specified |

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TEST REPORT

| Report No. | | ISSPL/EN/24-25/19262/B | | Date | 30/11/2024 |
|------------|-----------------|--------------------------------------|---------|-------|-----------------|
| S.No. | Test Parameters | Test Method | Results | Units | Detection Limit |
| 1 | | Regulation(Part -3) | | | |
| 2. | Temperature | CPCB Emission Regulation(Part -3) | 122 | °C | 5 |
| 3. | Moisture | USEPA 4 | 10.9 | % | 1 |

BLQ= Below Limit of Quantification, LOQ= Limit of Quantification

Remark: Sampling done by ISSPL Representative (Mr. Dinesh Jangid).

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TEST REPORT

| | Report No. | SPL/EN/24-25/19261/A | Date | 30/11/2024 | | |
|-----|--------------------------------------|--|--------------------------|------------|--|--|
| 1. | Name & address of Customer | Power Mech Project Limited Talwandi Sabo Power Ltd., 3X660N Power Plant, Banawala, Mansa Dis | | | | |
| 2. | Reference No. | ference No. Your TRF Dated: 28/11/2024 (Reg. No. 79739) | | | | |
| 3. | Material Identification with details | Donor Otack. Date and Time of Sampling, 20/11/2024 (04:20 pm to 04:5 | | | | |
| 4. | Sample code | 79739 | 79739 | | | |
| 5. | Date of sampling | 26/11/2024 | | | | |
| 6. | Date of Sample testing | 28/11/2024 To 30/11/2024 | 28/11/2024 To 30/11/2024 | | | |
| 7. | Sampling duration (in minutes) | 30 Min. | 30 Min. | | | |
| 8. | Sampling Location | Boiler Stack (First Unit, Unit-2) - 66 | 0 MW | | | |
| 9. | Sampling Protocol | IS:11255 (Pt-1) 1985 (RA 2014) | | | | |
| 10. | Type of stack | MS Circular | | | | |
| 11. | Stack attached to | Boiler Stack | | | | |
| 12. | Stack Diameter (in meters) | 7.2 | | | | |
| 13. | Stack height (in meters) | 275 | | | | |
| 14. | Type and quantity of fuel used | Coal | | | | |
| 15. | Instrument Code & Calibration S | Status ISSPL/INS/C/134 | | | | |
| 16. | Control Measures if any | - | | | | |
| 17. | Ambient Temperature (oC) | 26°C | | | | |
| 18. | Flue Gas Temperature (oC) | 131°C | | | | |

RESULTS

| .No. | Test Parameters | Test Method | Results | Units | Detection Limit |
|------|------------------------|-----------------------------|---------|--------|-----------------|
| 1 IP | articulate Matter (PM) | IS 11255 (Part 1) 1985, RA: | 39.66 | mg/Nm3 | |

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TEST REPORT

| Report No. | | ISSPL/EN/24-25/19261/A | | Date | 30/11/2024 |
|------------|---|--|-------------------|--------|-----------------|
| S.No. | Test Parameters | Test Method | Results | Units | Detection Limit |
| 1 | | 2019 | | | |
| 2 | Sulphur dioxide (SO2) at 6% O2 Corr. | USEPA 6C: 1996/By Flue Gas Analyzer | 912.53 | mg/Nm3 | 0.3 |
| 3 | Oxides of Nitrogen (NOX) at 6% O2 Corr. | USEPA 7E: 1990/By Flue Gas Analyzer | 228.3 | mg/Nm3 | 0.2 |
| 4 | Carbon Monoxide as (CO) | USEPA 10: 1996/By Flue Gas Analyzer | 3.9 | PPM | 0.1 |
| 5 | Carbon Dioxide as (CO2) | USEPA 3A:1989 | 10.2 | % | 0.1 |
| 6 | Oxyen as O2 | USEPA 3A:1989 | 7.6 | % | 0.1 |
| 7 | Mercury as (Hg) | USEPA 29:1996/101A:1991 | BLQ(LOQ 0.001) | mg/Nm3 | 0.001 |

BLQ= Below Limit of Quantification, LOQ= Limit of Quantification

Remark: Sampling done by ISSPL Representative (Mr. Dinesh Jangid).

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TEST REPORT

| | Report No. | SPL/EN/24-25/19261/B | Date | 30/11/2024 | | | |
|--|---------------------------------|--|--|----------------------|--|--|--|
| 1. | Name & address of Customer | Power Mech Project Limited Talwandi Sabo Power Ltd., 3X660N Power Plant, Banawala, Mansa Dis | | 42 | | | |
| 2. | Reference No. | Your TRF Dated: 28/11/2024 (Reg. | Your TRF Dated: 28/11/2024 (Reg. No. 79739) | | | | |
| Material Identification with details Boiler Stack: Date and Time of Sampling , Qty. 1 No. | | | npling: 26/11/2024 (04 | :20 pm to 04:50 pm), | | | |
| 4. | Sample code | 79739 | 79739 | | | | |
| 5. | Date of sampling | 26/11/2024 | 300 TO 1000 TO | | | | |
| 6. | Date of Sample testing | 28/11/2024 To 30/11/2024 | | | | | |
| 7. | Sampling duration (in minutes) | 30 Min. | 30 Min. | | | | |
| 8. | Sampling Location | Boiler Stack (First Unit, Unit-2) - 66 | 0 MW | | | | |
| 9. | Sampling Protocol | IS:11255 (Pt-1) 1985 (RA 2014) | | | | | |
| 10. | Type of stack | MS Circular | | | | | |
| 11. | Stack attached to | Boiler Stack | | | | | |
| 12. | Stack Diameter (in meters) | 7.2 | | | | | |
| 13. | Stack height (in meters) | 275 | | | | | |
| 4. | Type and quantity of fuel used | Coal | | | | | |
| 15. | Instrument Code & Calibration S | tatus ISSPL/INS/C/134 | | | | | |
| 6. | Control Measures if any | - | | | | | |
| 7. | Ambient Temperature (oC) | 26°C | | | | | |
| 8. | Flue Gas Temperature (oC) | 131°C | | | | | |

RESULTS

| .No. | Test Parameters | Test Method | Results | Units | Detection Limit |
|-------|-----------------|-----------------|---------|-------|-----------------|
| 1 Vel | locity of Gas | CPCB Emission | 20.0 | г , т | |
| | | Of OB Effission | 26.9 | m/s | Not Specified |

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TEST REPORT

| Report No. | | ISSPL/EN/24-25/19261/B | | Date | 30/11/2024 |
|------------|-----------------|--------------------------------------|---------|-------|-----------------|
| S.No. | Test Parameters | Test Method | Results | Units | Detection Limit |
| 1 | | Regulation(Part -3) | | | |
| 2. | Temperature | CPCB Emission Regulation(Part -3) | 128 | °C | 5 |
| 3. | Moisture | USEPA 4 | 11.8 | % | 1 |

BLQ= Below Limit of Quantification, LOQ= Limit of Quantification

Remark: Sampling done by ISSPL Representative (Mr. Dinesh Jangid).

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TEST REPORT

| | Report No. | SPL/EN/24-25/19260/A | Date | 30/11/2024 | | | | |
|-----|---|--|---|------------|--|--|--|--|
| 1. | Name & address of Customer | Power Mech Project Limited Talwandi Sabo Power Ltd., 3X66 Power Plant, Banawala, Mansa I | | | | | | |
| 2. | Reference No. | Your TRF Dated: 28/11/2024 (Re | Your TRF Dated: 28/11/2024 (Reg. No. 79740) | | | | | |
| 3. | Material Identification with details | Boiler Stack: Date and Time of Sampling: 26/11/2024 (03:45 pm to 04:15 pm, Qty. 1 No. | | | | | | |
| 4. | Sample code | 79740 | | | | | | |
| 5. | Date of sampling | 26/11/2024 | 26/11/2024 | | | | | |
| 6. | Date of Sample testing 28/11/2024 To 30/11/2024 | | | | | | | |
| 7. | Sampling duration (in minutes) | 30 Min. | | | | | | |
| 8. | Sampling Location | Boiler Stack (Second Unit - Unit- | 3) – 660 MW | | | | | |
| 9. | Sampling Protocol | IS:11255 (Pt-1) 1985 (RA 2014) | IS:11255 (Pt-1) 1985 (RA 2014) | | | | | |
| 10. | Type of stack | MS Circular | 15 | | | | | |
| 11. | Stack attached to | Boiler Stack | | | | | | |
| 12. | Stack Diameter (in meters) | 7.2 | | ¥0 | | | | |
| 13. | Stack height (in meters) | 275 | 275 | | | | | |
| 14. | Type and quantity of fuel used | Coal | Coal | | | | | |
| 15. | Instrument Code & Calibration S | Status ISSPL/INS/C/134 | | | | | | |
| 16. | Control Measures if any | - | | | | | | |
| 17. | Ambient Temperature (oC) | 26°C | | | | | | |
| 18. | Flue Gas Temperature (oC) | 127°C | | | | | | |

RESULTS

| S.No. | Test Parameters | Test Method | Results | Units | Detection Limit |
|-------|-------------------------|-----------------------------|---------|--------|-----------------|
| 1 | Particulate Matter (PM) | IS 11255 (Part 1) 1985, RA: | 34.9 | mg/Nm3 | 1 |

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TEST REPORT

| 1 | Report No. | ISSPL/EN/24-25/19260/A | | Date | 30/11/2024 |
|-------|---|--|-------------------|------------|-----------------|
| S.No. | Test Parameters | Test Method | Results | Units | Detection Limit |
| 1 | | 2019 | | | 17 |
| 2 | Sulphur dioxide (SO2) at 6% O2 Corr. | USEPA 6C: 1996/By Flue Gas Analyzer | 914.23 | mg/Nm3 | 0.3 |
| 3 | Oxides of Nitrogen (NOX) at 6% O2 Corr. | USEPA 7E: 1990/By Flue Gas Analyzer | 158.14 mg/Nm3 | mg/Nm3 0.2 | 0.2 |
| 4 | Carbon Monoxide as (CO) | USEPA 10: 1996/By Flue Gas Analyzer | 3.9 | PPM | 0.1 |
| 5 | Carbon Dioxide as (CO2) | USEPA 3A:1989 | 11.9 | % | 0.1 |
| 6 | Oxyen as O2 | USEPA 3A:1989 | 7.4 | % | 0.1 |
| 7 | Mercury as (Hg) | USEPA 29:1996/101A:1991 | BLQ(LOQ 0.001) | mg/Nm3 | 0.001 |

BLQ= Below Limit of Quantification, LOQ= Limit of Quantification

Remark: Sampling done by ISSPL Representative (Mr. Dinesh Jangid).

End of the Report

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TEST REPORT

| | Report No. | SPL/EN/24-25/19260/B | Date | 30/11/2024 | | | | |
|-----|---|---|---|------------|--|--|--|--|
| 1. | Name & address of Customer | | Power Mech Project Limited Talwandi Sabo Power Ltd., 3X660MW Thermal Power Plant, Banawala, Mansa District Punjab | | | | | |
| 2. | Reference No. | Your TRF Dated: 28/11/2024 (R | Reg. No. 79740) | | | | | |
| 3. | Material Identification with details | Boiler Stack: Date and Time of , Qty. 1 No. | Boiler Stack: Date and Time of Sampling: 26/11/2024 (03:45 pm to 04:15 pm), , Qty. 1 No. | | | | | |
| 4. | Sample code | 79740 | | | | | | |
| 5. | Date of sampling | 26/11/2024 | | | | | | |
| 6. | Date of Sample testing 28/11/2024 To 30/11/2024 | | | | | | | |
| 7. | Sampling duration (in minutes) | 2 | | | | | | |
| 8. | Sampling Location | Boiler Stack (Second Unit - Uni | (t-3) – 660 MW | | | | | |
| 9. | Sampling Protocol | IS:11255 (Pt-1) 1985 (RA 2014) |) | | | | | |
| 10. | Type of stack | MS Circular | | | | | | |
| 11. | Stack attached to | Boiler Stack | *************************************** | | | | | |
| 12. | Stack Diameter (in meters) | 7.2 | | | | | | |
| 13. | Stack height (in meters) | 275 | | | | | | |
| 14. | Type and quantity of fuel used | Coal | | | | | | |
| 15. | Instrument Code & Calibration | Status ISSPL/INS/C/134 | | | | | | |
| 16. | Control Measures if any | - | | | | | | |
| 17. | Ambient Temperature (oC) | 26°C | | | | | | |
| 18. | Flue Gas Temperature (oC) | 127°C | | | | | | |

RESULTS

| S.No. | Test Parameters | Test Method | Results | Units | Detection Limit |
|-------|-----------------|---------------|---------|-------|-----------------|
| 1 Ve | locity of Gas | CPCB Emission | 26.4 | m/s | Not Specified |

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TEST REPORT

| Report No. | | ISSPL/EN/24-25/19260/B | | Date | Date 30/11/2024 | |
|------------|-----------------|--------------------------------------|---------|-------|-----------------|--|
| S.No. | Test Parameters | Test Method | Results | Units | Detection Limit | |
| 1 | | Regulation(Part -3) | | | | |
| 2. | Temperature | CPCB Emission Regulation(Part -3) | 131 | °C | . 5 | |
| 3. | Moisture | USEPA 4 | 11.6 | % | 1 | |

BLQ= Below Limit of Quantification, LOQ= Limit of Quantification

Remark: Sampling done by ISSPL Representative (Mr. Dinesh Jangid).

End of the Report

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TEST REPORT

| | Report No. | SSPL/EN/24-25/18779 | Date | 20/11/2024 | | | | |
|-----|--------------------------------------|---|--|------------|--|--|--|--|
| 1. | Name & address of Customer | Power Mech Project Limited Talwandi Sabo Power Ltd., 3X660 Power Plant, Banawala, Mansa D | | | | | | |
| 2. | Reference No. | Your Dated: 19/11/2024 (Reg. No | . 80221) | | | | | |
| 3. | Material Identification with details | Ambient Air Quality Monitoring: | Ambient Air Quality Monitoring: Qty. 1 No. | | | | | |
| 4. | Date of Sampling | 14/11/2024 - 15/11/2024 | | 12 18 | | | | |
| 5. | Time of Sampling | 12:20 pm to 12:20 pm | 12:20 pm to 12:20 pm | | | | | |
| 6. | Sampling Location | Station No.1 (CAAQMS) | - I | | | | | |
| 7. | Sampling Protocol | IS:5182 (Pt-14) 2000 | IS:5182 (Pt-14) 2000 | | | | | |
| 8. | Duration of Sampling (Minutes) | | | | | | | |
| 9. | Test Started On | 19/11/2024 | 19/11/2024 | | | | | |
| 10. | Test Completed On | 20/11/2024 | 20/11/2024 | | | | | |
| 11. | Date of sample Testing | 19/11/2024 To 20/11/2024 | | (40) | | | | |
| 12. | Nature & Activity of the Unit | Human and Plant Site Activities | V | | | | | |
| 13. | Ambient Temperature (oC) | Min. 16°C, Max. 27°C | | | | | | |
| 14. | Weather Condition during Monit | | | | | | | |
| 5. | Instrument Code & Calibration S | tatus ISSPL/INS/C/212, ISSPL/INS/197,I | ISSPL/INS/C/126 | | | | | |
| | | The second contraction of the second | | | | | | |

| RESULTS | | | | | | | | |
|---------|--------------------------------|---------------------------------------|---------|-------|------------------------|-----------------|--|--|
| S.No. | Name of Test mical Parameter:- | Method of Test | Results | Unit | Limit as per NAAQS* | Detection Limit | | |
| I. Atn | nospheric Pollution | | | | | | | |
| 1 | Sulphur Dioxide (as SO2) | IS:5182 (Part 2)-2001, Reaff :2017 | 9.45 | μg/m³ | 80 (Max.) | 4 | | |
| 2 | Nitrogen Dioxide(as NO2) | IS:5182 (Part 6)-2006, Reaff :2017 | 33.76 | µg/m³ | 80 (Max.) | 6 | | |

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| Repo | rt No. | ISSPL/EN/24-25/1877 | 9 | Dat | te | 20/11/2024 |
|------|---------------------------------|--|-----------------|-------|------------------------|-----------------|
| S.No | 2007 52 0550 | Method of Test | Results | Unit | Limit as per NAAQS* | Detection Limit |
| 3 | Particulate Matter (as PM2.5) | IS:5182 (Part 24):2019 | 80.7 | µg/m³ | 60 (Max.) | 1 |
| 4 | Particulate Matter (as PM10) | IS:5182 (Part 23)- 2006, Reaff:2017 | 152.7 | µg/m³ | 100 (Max.) | 2 |
| 5 | Ammonia (as Total ammonia-N) | IS:5182 (Part 25) :2018 | 19.2 | µg/m³ | 400 (Max.) | 0.1 |
| 6 | Ozone (as O3) | IS 5182 (P-9):1974, Reaff:2014 | 34 | µg/m³ | 180 (Max.) | 1 |
| 7 | Carbon Monoxide (as CO) | IS 5182 (Part - 10):1999 | 1.87 | mg/m³ | 4 (Max.) | 0.02 |
| 8 | Benzene | IS: 5182 (Part 11) :2006 Reaff. 2017 | BLQ(LOQ 1.0) | µg/m³ | 5.0 (Max.) | 1.0 |
| 9 | Benzo(a)pyrene | IS: 5182 (Part-12)- 2004, Reaff:2014 | BLQ(LOQ:0.0005) | ng/m³ | 1.0 (Max.) | 0.0005 |
| 10 | Nickel (as Ni) | USEPA Method IO 3.5 1999 | BLQ(LOQ:0.5) | ng/m³ | 20.0 (Max.) | 0.5 |
| | Arsenic (as As) | USEPA Method IO 3.5 1999 | BLQ(LOQ:0.5) | ng/m³ | 6.0 (Max.) | 0.5 |
| 12 | Lead (as Pb) | USEPA Method IO 3.5 1999 | BLQ(LOQ:0.0005) | µg/m³ | 1.0 (Max.) | 0.0005 |

BLQ= Below Limit of Quantification, LOQ= Limit of Quantification

*NAAQS- National Ambient Air Quality Does Not Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-se.-3(i)]

16.11.2009. Remark: Sampling done by ISSPL Representative (Mr.Dinesh Jangid).

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TEST REPORT

| | Report No. | SSPL/EN/24-25/18777 | Date | 20/11/2024 | | | | |
|-----|--------------------------------------|--|--|------------|--|--|--|--|
| 1. | Name & address of Customer | Power Mech Project Limited Talwandi Sabo Power Ltd., 3X66 Power Plant, Banawala, Mansa | | | | | | |
| 2. | Reference No. | Your Dated: 19/11/2024 (Reg. N | o. 80223) | | | | | |
| 3. | Material Identification with details | Ambient Air Quality Monitoring | Ambient Air Quality Monitoring: Qty. 1 No. | | | | | |
| 4. | Date of Sampling | 14/11/2024 - 15/11/2024 | 14/11/2024 - 15/11/2024 | | | | | |
| 5. | Time of Sampling | ampling 01:34 pm to 01:34 pm | | | | | | |
| 6. | Sampling Location | Station No.2 (CAAQMS) | Station No.2 (CAAQMS) | | | | | |
| 7. | Sampling Protocol | IS:5182 (Pt-14) 2000 | IS:5182 (Pt-14) 2000 | | | | | |
| 3. | Duration of Sampling (Minutes) | 1440 Min. | 1440 Min. | | | | | |
| 9. | Test Started On | 19/11/2024 | 19/11/2024 | | | | | |
| 10. | Test Completed On | 20/11/2024 | 20/11/2024 | | | | | |
| 11. | Date of sample Testing | 19/11/2024 To 20/11/2024 | 19/11/2024 To 20/11/2024 | | | | | |
| 12. | Nature & Activity of the Unit | Human and Plant Site Activities | Human and Plant Site Activities | | | | | |
| 13. | Ambient Temperature (oC) | Min. 16°C, Max. 27°C | | | | | | |
| 14. | Weather Condition during Moni | toring Clear Sky | | | | | | |
| 5. | Instrument Code & Calibration S | Status ISSPL/INS/C/212, ISSPL/INS/197 | 7,ISSPL/INS/C/126 | | | | | |

RESULTS

| | | 112002 | | | | |
|--------|---------------------------|---------------------------------------|---------|-------|------------------------|-----------------|
| S.No. | | Method of Test | Results | Unit | Limit as per NAAQS* | Detection Limit |
| l.Che | mical Parameter:- | | | | | |
| 1. Atn | nospheric Pollution | | | | | |
| 1 | Sulphur Dioxide (as SO2) | IS:5182 (Part 2)-2001, Reaff :2017 | 8.93 | μg/m³ | 80 (Max.) | 4 |
| 2 | Nitrogen Dioxide(as NO2) | IS:5182 (Part 6)-2006, Reaff :2017 | 32.17 | µg/m³ | 80 (Max.) | 6 |

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Testing Laboratory

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TEST REPORT

| Repo | rt No. | ISSPL/EN/24-25/1877 | 7 | Dat | e | 20/11/2024 |
|-------|---------------------------------|--|-----------------|--------|------------------------|-----------------|
| S.No. | A COMME TO MEET | Method of Test | Results | Unit | Limit as per NAAQS* | Detection Limit |
| 3 | Particulate Matter (as PM2.5) | IS:5182 (Part 24):2019 | 81.6 | μg/m³ | 60 (Max.) | 1 |
| 4 | Particulate Matter (as PM10) | IS:5182 (Part 23)- 2006, Reaff:2017 | 148.2 | μg/m³. | 100 (Max.) | 2 |
| 5 | Ammonia (as Total ammonia-N) | IS:5182 (Part 25) :2018 | 18.8 | µg/m³ | 400 (Max.) | 0.1 |
| 6 | Ozone (as O3) | IS 5182 (P-9):1974, Reaff:2014 | 32.2 | µg/m³ | 180 (Max.) | 1 |
| 7 | Carbon Monoxide (as CO) | IS 5182 (Part - 10):1999 | 1.36 | mg/m³ | 4 (Max.) | 0.02 |
| 8 | Benzene | IS: 5182 (Part 11) :2006 Reaff. 2017 | BLQ(LOQ 1.0) | µg/m³ | 5.0 (Max.) | 1.0 |
| 9 | Benzo(a)pyrene | IS: 5182 (Part-12)- 2004, Reaff:2014 | BLQ(LOQ:0.0005) | ng/m³ | 1.0 (Max.) | 0.0005 |
| 10 | Nickel (as Ni) | USEPA Method IO 3.5 1999 | BLQ(LOQ:0.5) | ng/m³ | 20.0 (Max.) | 0.5 |
| | | USEPA Method IO 3.5 1999 | BLQ(LOQ:0.5) | ng/m³ | 6.0 (Max.) | 0.5 |
| 12 | Lead (as Pb) | USEPA Method IO 3.5 1999 | BLQ(LOQ:0.0005) | μg/m³. | 1.0 (Max.) | 0.0005 |

BLQ= Below Limit of Quantification, LOQ= Limit of Quantification

*NAAQS- National Ambient Air Quality Does Not Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-se.-3(i)] 16.11.2009.

Remark: Sampling done by ISSPL Representative (Mr.Dinesh Jangid).

End of the Report

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Testing Laboratory



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TEST REPORT

| | Report No. | SSPL/EN/24-25/18780 | Date | 20/11/2024 | | | | |
|-----|--|--|--|------------|--|--|--|--|
| 1. | Name & address of Customer | Power Mech Project Limited Talwandi Sabo Power Ltd., 3X660 Power Plant, Banawala, Mansa D | DMW Thermal istrict Punjab | | | | | |
| 2. | Reference No. | Your Dated: 19/11/2024 (Reg. No | Your Dated: 19/11/2024 (Reg. No. 80220) | | | | | |
| 3. | Material Identification with details Ambient Air Quality Monitoring: Qty. 1 No. | | | | | | | |
| 4. | Date of Sampling | 14/11/2024 - 15/11/2024 | 14/11/2024 - 15/11/2024 | | | | | |
| 5. | Time of Sampling | 12:57 pm to 12:57 pm | 12:57 pm to 12:57 pm | | | | | |
| 6. | Sampling Location | Station No.3 (CAAQMS) | The state of the s | | | | | |
| 7. | Sampling Protocol IS:5182 (Pt-14) 2000 | | | | | | | |
| 3. | Duration of Sampling (Minutes) | 1440 Min. | | | | | | |
| 9. | Test Started On | 19/11/2024 | | | | | | |
| 10. | Test Completed On | 20/11/2024 | | | | | | |
| 11. | ACCOUNT OF THE PROPERTY OF THE | | | | | | | |
| 12. | Nature & Activity of the Unit | Human and Plant Site Activities | | | | | | |
| 13. | Ambient Temperature (oC) | Min. 16°C, Max. 27°C | | | | | | |
| 14. | Weather Condition during Monit | The state of the s | | | | | | |
| 15. | Instrument Code & Calibration S | tatus ISSPL/INS/C/214, ISSPL/INS/228, | ISSDI /INIS/C/210 | | | | | |

RESULTS

| S.No. | | Method of Test | Results | Unit | Limit as per NAAQS* | Detection Limit |
|--------|---------------------------|---------------------------------------|---------|-------|------------------------|-----------------|
| .Che | mical Parameter:- | | | | IVAAQS | |
| 1. Atn | nospheric Pollution | | | 3 | | |
| 1 | Sulphur Dioxide (as SO2) | IS:5182 (Part 2)-2001, Reaff :2017 | 9.6 | µg/m³ | 80 (Max.) | 4 |
| 2 | Nitrogen Dioxide(as NO2) | IS:5182 (Part 6)-2006, Reaff :2017 | 34.19 | μg/m³ | 80 (Max.) | 6 |

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Testing Laboratory







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| Report No. | | ISSPL/EN/24-25/18780 | | | е | 20/11/2024 | |
|------------|---------------------------------|--|-----------------|-------|------------------------|-----------------|--|
| S.No | | Method of Test | Results | Unit | Limit as per NAAQS* | Detection Limit | |
| 3 | Particulate Matter (as PM2.5) | IS:5182 (Part 24):2019 | 78.4 | μg/m³ | 60 (Max.) | 1 | |
| 4 | Particulate Matter (as PM10) | IS:5182 (Part 23)- 2006, Reaff:2017 | 149.1 | μg/m³ | 100 (Max.) | 2 | |
| 5 | Ammonia (as Total ammonia-N) | IS:5182 (Part 25) :2018 | 17.8 | μg/m³ | 400 (Max.) | 0.1 | |
| 6 | Ozone (as O3) | IS 5182 (P-9):1974, Reaff:2014 | 35.8 | µg/m³ | 180 (Max.) | 1 | |
| 7 | Carbon Monoxide (as CO) | IS 5182 (Part - 10):1999 | 1.48 | mg/m³ | 4 (Max.) | 0.02 | |
| 8 | Benzene | IS: 5182 (Part 11) :2006 Reaff. 2017 | BLQ(LOQ 1.0) | µg/m³ | 5.0 (Max.) | 1.0 | |
| 9 | Benzo(a)pyrene | IS: 5182 (Part-12)- 2004, Reaff:2014 | BLQ(LOQ:0.0005) | ng/m³ | 1.0 (Max.) | 0.0005 | |
| 10 | Nickel (as Ni) | USEPA Method IO 3.5 1999 | BLQ(LOQ:0.5) | ng/m³ | 20.0 (Max.) | 0.5 | |
| 11 | Arsenic (as As) | USEPA Method IO 3.5 1999 | BLQ(LOQ:0.5) | ng/m³ | 6.0 (Max.) | 0.5 | |
| 12 | Lead (as Pb) | USEPA Method IO 3.5 1999 | BLQ(LOQ:0.0005) | μg/m³ | 1.0 (Max.) | 0.0005 | |

BLQ= Below Limit of Quantification, LOQ= Limit of Quantification

*NAAQS- National Ambient Air Quality Does Not Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-se.-3(i)]

16.11.2009. Remark: Sampling done by ISSPL Representative (Mr.Dinesh Jangid).

End of the Report

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| | Report No. | SSPL/EN/24-25/18778 | /EN/24-25/18778 Date | | | | | |
|-----|--|---|--|--|--|--|--|--|
| 1. | Name & address of Customer | Power Mech Project Limited Talwandi Sabo Power Ltd., 3X6 Power Plant, Banawala, Mansa | ======================================= | | | | | |
| 2. | Reference No. | Your Dated: 19/11/2024 (Reg. N | Your Dated: 19/11/2024 (Reg. No. 80222) | | | | | |
| 3. | Material Identification with details Ambient Air Quality Monitoring: Qty. 1 No. | | | | | | | |
| 4. | Date of Sampling | 13/11/2024 - 14/11/2024 | 13/11/2024 - 14/11/2024 | | | | | |
| 5. | Time of Sampling | 09:38 am to 09:38 am | 09:38 am to 09:38 am | | | | | |
| 6. | Sampling Location | Station No.4 (CAAQMS) | Station No.4 (CAAQMS) | | | | | |
| 7. | Sampling Protocol | IS:5182 (Pt-14) 2000 | IS:5182 (Pt-14) 2000 | | | | | |
| 8. | Duration of Sampling (Minutes | | And the state of t | | | | | |
| 9. | Test Started On | 19/11/2024 | 19/11/2024 | | | | | |
| 10. | Test Completed On | 20/11/2024 | 20/11/2024 | | | | | |
| 11. | Date of sample Testing | 19/11/2024 To 20/11/2024 | | | | | | |
| 12. | Nature & Activity of the Unit | Human and Plant Site Activities | STATES AND STATES AND | | | | | |
| 13. | Ambient Temperature (oC) | Min. 16°C, Max. 27°C | THE PROPERTY OF THE PROPERTY O | | | | | |
| 14. | Weather Condition during Mon | | | | | | | |
| 15. | Instrument Code & Calibration S | Status ISSPL/INS/C/214, ISSPL/INS/22 | 8,ISSPL/INS/C/219 | | | | | |
| | | DEOLU TO | | | | | | |

RESULTS

| S.No. | | Method of Test | Results | Unit | Limit as per NAAQS* | Detection Limit |
|-------|---------------------------|---------------------------------------|---------|-------|------------------------|-----------------|
| Che | mical Parameter:- | | | | INAAQS | |
| . Atn | nospheric Pollution | | | | | |
| 1 | Sulphur Dioxide (as SO2) | IS:5182 (Part 2)-2001, Reaff :2017 | 8.34 | µg/m³ | 80 (Max.) | 4 |
| 2 | Nitrogen Dioxide(as NO2) | IS:5182 (Part 6)-2006, Reaff :2017 | 31.41 | μg/m³ | 80 (Max.) | 6 |

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| Report No. | | ISSPL/EN/24-25/18778 | | Dat | е | 20/11/2024 | |
|------------|---------------------------------|--|-----------------|-------|------------------------|-----------------|--|
| S.No. | | Method of Test | Results | Unit | Limit as per NAAQS* | Detection Limit | |
| 3 | Particulate Matter (as PM2.5) | IS:5182 (Part 24):2019 | 85.4 | μg/m³ | 60 (Max.) | 1 | |
| 4 | Particulate Matter (as PM10) | IS:5182 (Part 23)- 2006, Reaff:2017 | 157.7 | µg/m³ | 100 (Max.) | 2 | |
| 5 | Ammonia (as Total ammonia-N) | IS:5182 (Part 25) :2018 | 18.5 | µg/m³ | 400 (Max.) | 0.1 | |
| 6 | Ozone (as O3) | IS 5182 (P-9):1974, Reaff:2014 | 33.9 | µg/m³ | 180 (Max.) | 1 | |
| 7 | Carbon Monoxide (as CO) | IS 5182 (Part - 10):1999 | 1.56 | mg/m³ | 4 (Max.) | 0.02 | |
| 8 | Benzene | IS: 5182 (Part 11) :2006 Reaff. 2017 | BLQ(LOQ 1.0) | µg/m³ | 5.0 (Max.) | 1.0 | |
| | Benzo(a)pyrene | IS: 5182 (Part-12)- 2004, Reaff:2014 | BLQ(LOQ:0.0005) | ng/m³ | 1.0 (Max.) | 0.0005 | |
| | Nickel (as Ni) | USEPA Method IO 3.5 1999 | BLQ(LOQ:0.5) | ng/m³ | 20.0 (Max.) | 0.5 | |
| | V050 A2 | USEPA Method IO 3.5 1999 | BLQ(LOQ:0.5) | ng/m³ | 6.0 (Max.) | 0.5 | |
| 12 | Lead (as Pb) | USEPA Method IO 3.5 1999 | BLQ(LOQ:0.0005) | μg/m³ | 1.0 (Max.) | 0.0005 | |

BLQ= Below Limit of Quantification, LOQ= Limit of Quantification

*NAAQS- National Ambient Air Quality Does Not Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-se.-3(i)]

16.11.2009. Remark: Sampling done by ISSPL Representative (Mr.Dinesh Jangid).

End of the Report

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