

(Promoted by Indian Register of Shipping)

## **Testing Laboratory**





CEG Tower, 1<sup>st</sup>& 2 <sup>nd</sup> Floor, B-11G, Industrial Area, Malviya Nagar, Jaipur, Rajasthan – 302017: India Tel: 0141-4805672|Email – lab@irclass.org |Website: www.isspllab.com

# **TEST REPORT**

| Process and Comment |                                      | SPL/EN/24-25/20198/A  | Date  | 20/12/2024      |  |  |
|---------------------|--------------------------------------|---|---|-----------------|--|--|
| 1.                  | Name & address of Customer           | Power Mech Project Limited Talwandi Sabo Power Ltd., 3X660MN Power Plant, Banawala, Mansa Distr | W Thermal<br>ict Punjab                     | 20122224        |  |  |
| 2.                  | Reference No.                        | Your TRF Dated: 15/12/2024 (Reg. N  | Your TRF Dated: 15/12/2024 (Reg. No. 78802) |                 |  |  |
| 3.                  | Material Identification with details | Boiler Stack: Date and Time of Sam<br>pm), Qty. 1 No.   | pling: 14/12/2024 (11                       | :40 pm to 12:10 |  |  |
| 4.                  | Sample code                          | Sample code 78802   |   |                 |  |  |
| 5.                  | Date of sampling                     | 14/12/2024  |   |                 |  |  |
| 6.                  | Date of Sample testing               | 15/12/2024 To 20/12/2024  |   |                 |  |  |
| 7.                  | Sampling duration (in minutes)       |   |   |                 |  |  |
| 8.                  | Sampling Location                    | Boiler Stack (Unit-1 Third Unit) 660 M  | IW  |                 |  |  |
| Э.                  | Sampling Protocol                    | IS:11255 (Pt-1) 1985 (RA 2014)  |   |                 |  |  |
| 10.                 | Type of stack                        | MS Circular   |   | 3               |  |  |
| 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      |   |   |                 |  |  |
| 6.                  | Control Measures if any              | -   |   |                 |  |  |
| 7.                  | Ambient Temperature (oC)             | 26°C  |   |                 |  |  |
|                     | Flue Gas Temperature (oC)            |   |   |                 |  |  |

#### **RESULTS**

| S.No.    | Test Parameters                      | Test Method                 | Results | Units  | Detection Limit |
|----------|--------------------------------------|-----------------------------|---------|--------|-----------------|
| 3I. Chem | ical Testing:-                       |                             |         | 5.11.6 | Detection Limit |
| 1. 4     | Atmospheric Pollution:-              |                             |         |        |                 |
|          | rticulate Matter (PM)<br>5% O2 Corr. | IS 11255 (Part 1) 1985, RA: | 29      | mg/Nm3 | 1               |

Page No. 1/2





(Promoted by Indian Register of Shipping)

### **Testing Laboratory**

CEG Tower, 1<sup>18</sup>& 2 <sup>nd</sup> Floor, B-11G, Industrial Area, Malviya Nagar, Jaipur, Rajasthan — 302017: India

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





## **TEST REPORT**

| Report No. |   | ISSPL/EN/24-25/20198/A                 |                    | Date   | 20/12/2024      |
|------------|---|--|--------------------|--------|-----------------|
| S.No.      | Test Parameters                         | Test Method                            | Results            | Units  | Detection Limit |
|            |   | 2019                                   |                    |        | Detection Limit |
|            | Sulphur dioxide (SO2) at 6% O2 Corr.    | USEPA 6C: 1996/By Flue<br>Gas Analyzer | 912                | mg/Nm3 | 0.3             |
| 3          | Oxides of Nitrogen (NOX) at 6% O2 Corr. | USEPA 7E: 1990/By Flue<br>Gas Analyzer | 192                | mg/Nm3 | 0.2             |
| 4          | Carbon Monoxide as (CO)                 | USEPA 10: 1996/By Flue<br>Gas Analyzer | 3.42               | PPM    | 0.1             |
| 5          | Carbon Dioxide as CO2                   | USEPA 3A:1989                          | 9.6                | %      | 0.1             |
| 6          | Oxyen as O2                             | USEPA 3A:1989                          | 7.3                | %      |                 |
| 7          | Mercury as (Hg)                         | USEPA 29:1996/101A:1991                | .53/45-51/8        |        | 0.1             |
|            | , (-0)                                  | 00=1 in the form (5 m)                 | BLQ(LOQ:<br>0.001) | mg/Nm3 | 0.001           |

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

Remark-1: Sampling done by ISSPL Representative (Mr.Pokhar Nath Yogi).

\*\*End of the Report\*\*

Page No. 2/2





(Promoted by Indian Register of Shipping) **Testing Laboratory** 

CEG Tower, 1<sup>st</sup>& 2 <sup>nd</sup> Floor, B-11G, Industrial Area, Malviya Nagar, Jaipur, Rajasthan – 302017: India

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

## **TEST REPORT**

|     | Report No. ISS                       | SPL/EN/24-25/20198/B  | Date   | 20/12/2024     |  |  |  |
|-----|--------------------------------------|---|--|----------------|--|--|--|
| 1.  | Name & address of Customer           | Power Mech Project Limited Talwandi Sabo Power Ltd., 3X660MW Power Plant, Banawala, Mansa Distric | Thermal  | 20122024       |  |  |  |
| 2.  | Reference No.                        | Your TRF Dated: 15/12/2024 (Reg. No.  | Your TRF Dated: 15/12/2024 (Reg. No. 78802)  |                |  |  |  |
| 3.  | Material Identification with details | Boiler Stack: Date and Time of Samp pm), Qty. 1 No.   | Boiler Stack: Date and Time of Sampling: 14/12/2024 (11:40 pm to 12:10 pm), Qty. 1 No. |                |  |  |  |
| 4.  | Sample code                          | 78802   |  |                |  |  |  |
| 5.  | Date of sampling                     | 14/12/2024  |  |                |  |  |  |
| 6.  | Date of Sample testing               | 15/12/2024 To 20/12/2024  | 15/12/2024 To 20/12/2024   |                |  |  |  |
| 7.  | Sampling duration (in minutes)       | 30 Min.   |  |                |  |  |  |
| 8.  | Sampling Location                    | Boiler Stack (Unit-1 Third Unit) 660 MV   | V  |                |  |  |  |
| 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  |  | T <sub>1</sub> |  |  |  |
| 15. | Instrument Code & Calibration St     | atus 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.       | <b>Test Parameters</b> | Test Method                            | Results  | Units | Detection 11 11 |
|-------------|------------------------|--|----------|-------|-----------------|
| 3I. Chemica | l Testing:-            |  | - Hounto | Onits | Detection Limit |
| 1. Atn      | nospheric Pollution:-  |  |          |       |                 |
| 1 Veloc     | ity of Gas             | CPCB Emission                          | 25.8     | m/s   | Not 0'5-1       |
|             |                        | March Story (Moure Book) represent the | 20.0     | 111/5 | Not Specified   |

Page No. 1/2





(Promoted by Indian Register of Shipping)

### **Testing Laboratory**

CEG Tower, 1<sup>st</sup>& 2 <sup>nd</sup> Floor, B-11G, Industrial Area, Malviya Nagar, Jaipur, Rajasthan – 302017: India Tel: 0141-4805672|Email – lab@irclass.org |Website : www.isspllab.com

### **TEST REPORT**

|       | Report No.      | ISSPL/EN/24-25/20198/B               |         | Date  | 20/12/2024      |
|-------|-----------------|--------------------------------------|---------|-------|-----------------|
| S.No. | Test Parameters | Test Method                          | Results | Units | Detection Limit |
|       |                 | Regulation(Part -3)                  |         |       |                 |
| 2     | Temperature     | CPCB Emission<br>Regulation(Part -3) | 142     | °C    | 5               |
| 3     | Moisture        | USEPA 4                              | 11.5    | %     | 1               |

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

Remark-1: Sampling done by ISSPL Representative (Mr.Pokhar Nath Yogi).

\*\*End of the Report\*\*

Page No. 2/2





(Promoted by Indian Register of Shipping)

## **Testing Laboratory**







## **TEST REPORT**

|     | Report No.                           | ISSPL/EN/24-25/20199/A  | Date                     | 20/12/2024      |  |  |  |
|-----|--------------------------------------|---|--------------------------|-----------------|--|--|--|
| 1.  | Name & address of Customer           | Power Mech Project Limited Talwandi Sabo Power Ltd., 3X660N Power Plant, Banawala, Mansa Disi | IW Thermal               | 20/12/2024      |  |  |  |
| 2.  | Reference No.                        | Your TRF Dated: 15/12/2024 (Reg.  | No. 78801)               |                 |  |  |  |
| 3.  | Material Identification with details | Boiler Stack: Date and Time of Sar<br>am), Qty. 1 No.   | npling: 14/12/2024 (11   | :00 am to 11:30 |  |  |  |
| 4.  | Sample code                          | 78801   |                          |                 |  |  |  |
| 5.  | Date of sampling                     | 14/12/2024  |                          |                 |  |  |  |
| 6.  | Date of Sample testing               |   | 15/12/2024 To 20/12/2024 |                 |  |  |  |
| 7.  | Sampling duration (in minutes        | 30 Min.   |                          |                 |  |  |  |
| 8.  | Sampling Location                    | Boiler Stack (Unit-2 First Unit) 660 M  | IW                       |                 |  |  |  |
| 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  | _                        |                 |  |  |  |
| 6.  | Control Measures if any              | -   |                          |                 |  |  |  |
| 7.  | Ambient Temperature (oC)             | 26°C  |                          |                 |  |  |  |
| 8.  | Flue Gas Temperature (oC)            | 131°C   |                          |                 |  |  |  |

#### **RESULTS**

| S.No.     | Test Parameters                   | Test Method                 | 5       |        |                        |
|-----------|-----------------------------------|-----------------------------|---------|--------|------------------------|
| 3I. Chemi | cal Testing:-                     | rest Metriod                | Results | Units  | <b>Detection Limit</b> |
| 1. A      | tmospheric Pollution:-            |                             |         |        |                        |
|           | iculate Matter (PM)<br>% O2 Corr. | IS 11255 (Part 1) 1985, RA: | 37      | mg/Nm3 | 1                      |
| age No    | 1/2                               |                             |         | 1 1    |                        |

Page No. 1/2

Reviewed By

Authorised Signatory



(Promoted by Indian Register of Shipping)

### **Testing Laboratory**

CEG Tower, 1 % 2 <sup>nd</sup> Floor, B-11G, Industrial Area, Malviya Nagar, Jaipur, Rajasthan – 302017: India

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





# **TEST REPORT**

| Report No. |   | ISSPL/EN/24-25/20199/A                 |                    | Date   | 20/12/2024      |
|------------|---|--|--------------------|--------|-----------------|
| S.No.      | Test Parameters                         | Test Method                            | Results            | Units  | Detection Limit |
|            |   | 2019                                   |                    |        | Detection Limit |
|            | Sulphur dioxide (SO2) at 6% O2 Corr.    | USEPA 6C: 1996/By Flue<br>Gas Analyzer | 904                | mg/Nm3 | 0.3             |
|            | Oxides of Nitrogen (NOX) at 6% O2 Corr. | USEPA 7E: 1990/By Flue<br>Gas Analyzer | 211.14             | mg/Nm3 | 0.2             |
| 4          | Carbon Monoxide as (CO)                 | USEPA 10: 1996/By Flue<br>Gas Analyzer | 4.4                | PPM    | 0.1             |
| 5          | Carbon Dioxide as CO2                   | USEPA 3A:1989                          | 9.2                | %      | 0.1             |
| 6          | Oxyen as O2                             | USEPA 3A:1989                          | 8.3                | %      | 0.1             |
| 7          | Mercury as (Hg)                         |  | 200.50             | 70     | 0.1             |
|            | wiciculy as (ing)                       | USEPA 29:1996/101A:1991                | BLQ(LOQ:<br>0.001) | mg/Nm3 | 0.001           |

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

Remark-1: Sampling done by ISSPL Representative (Mr.Pokhar Nath Yogi).

\*\*End of the Report\*\*

Page No. 2/2





(Promoted by Indian Register of Shipping)

## **Testing Laboratory**

CEG Tower, 1<sup>st</sup>& 2 <sup>nd</sup> Floor, B-11G, Industrial Area, Malviya Nagar, Jaipur, Rajasthan – 302017: India Tel: 0141-4805672|Email – lab@irclass.org |Website: www.isspllab.com

## **TEST REPORT**

|     | Report No.                           | ISSPL/EN/24-25/20199/B  | Date   | 20/12/2024 |  |  |  |
|-----|--------------------------------------|---|--|------------|--|--|--|
| 1.  | Name & address of Custome            | Power Mech Project Limited Talwandi Sabo Power Ltd., 3X660M Power Plant, Banawala, Mansa Dist | W Thermal  | 23/12/224  |  |  |  |
| 2.  | Reference No.                        | Your TRF Dated: 15/12/2024 (Reg.  | Your TRF Dated: 15/12/2024 (Reg. No. 78801)  |            |  |  |  |
| 3.  | Material Identification with details | Boiler Stack: Date and Time of San<br>am), Qty. 1 No.   | Boiler Stack: Date and Time of Sampling: 14/12/2024 (11:00 am to 11:30 am), Qty. 1 No. |            |  |  |  |
| 4.  | Sample code                          | 78801   |  |            |  |  |  |
| 5.  | Date of sampling                     | 14/12/2024  |  |            |  |  |  |
| 6.  | Date of Sample testing               | 15/12/2024 To 20/12/2024  |  |            |  |  |  |
| 7.  | Sampling duration (in minut          |   |  |            |  |  |  |
| 8.  | Sampling Location                    | Boiler Stack (Unit-2 First Unit) 660 M  | W  |            |  |  |  |
| 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 & Calibratio         |   |  |            |  |  |  |
| 16. | Control Measures if any              | -   |  |            |  |  |  |
| 17. | Ambient Temperature (oC)             | 26°C  |  |            |  |  |  |
| 18. | Flue Gas Temperature (oC)            | 131°C   |  |            |  |  |  |

#### **RESULTS**

| S.No.     | Test Parameters        | Test Method   | Results | T T   |                 |
|-----------|------------------------|---------------|---------|-------|-----------------|
| 3l. Chemi | ical Testing:-         | · oot medied  | Results | Units | Detection Limit |
| 1. A      | tmospheric Pollution:- |               |         |       |                 |
| 1 1/01    | ocity of Gas           | CPCB Emission | 25.6    |       |                 |
| 1 Vel     |                        |               |         |       |                 |

Page No. 1/2





(Promoted by Indian Register of Shipping) **Testing Laboratory** 

CEG Tower, 1<sup>st</sup>& 2 <sup>nd</sup> Floor, B-11G, Industrial Area, Malviya Nagar, Jaipur, Rajasthan – 302017: India

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

### **TEST REPORT**

| Report No. |                   | ISSPL/EN/24-25/20199/B               |         | Date  | 20/12/2024      |
|------------|-------------------|--------------------------------------|---------|-------|-----------------|
| S.No.      | . Test Parameters | Test Method                          | Results | Units | Detection Limit |
|            |                   | Regulation(Part -3)                  |         |       |                 |
| 2          | Temperature       | CPCB Emission<br>Regulation(Part -3) | 124     | °C    | 5               |
| 3          | Moisture          | USEPA 4                              | 11.6    | %     | 1               |

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

Remark-1: Sampling done by ISSPL Representative (Mr.Pokhar Nath Yogi).

\*\*End of the Report\*\*

Page No. 2/2





(Promoted by Indian Register of Shipping)

## **Testing Laboratory**





CEG Tower, 1<sup>st</sup>& 2 <sup>nd</sup> Floor, B-11G, Industrial Area, Malviya Nagar, Jaipur, Rajasthan – 302017: India Tel: 0141-4805672 | Email – lab@irclass.org | Website : www.isspllab.com

## **TEST REPORT**

|     | Report No.                           | SSPL/EN/24-25/20209  | Date               | 20/12/2024 |
|-----|--------------------------------------|--|--------------------|------------|
| 1.  | Name & address of Customer           | Power Mech Project Limited Talwandi Sabo Power Ltd., 3X66 Power Plant, Banawala, Mansa D |                    |            |
| 2.  | Reference No.                        | Your TRF 16/12/2024 (Reg. No.  | 78791)             |            |
| 3.  | Material Identification with details | Ambient Air Quality Monitoring   | g: Qty. 1 No.      |            |
| 4.  | Date of Sampling                     | 13/12/2024 to 14/12/2024   |                    |            |
| 5.  | Time of Sampling                     | 11:00 am to 11:00 am   |                    |            |
| 6.  | Sampling Location                    | Station No. 01 (CAAQMS)  |                    |            |
| 7.  | Sampling Protocol                    | IS:5182 (Pt-14) 2000   |                    |            |
| 8.  | Duration of Sampling (Minutes)       | 1440 Min.  |                    |            |
| 9.  | Test Started On                      | 16/12/2024   |                    |            |
| 10. | Test Completed On                    | 20/12/2024   |                    |            |
| 11. | Date of sample Testing               | 16/12/2024 To 20/12/2024   |                    |            |
| 12. | Nature & Activity of the Unit        | Human and Plant Site Activities  |                    |            |
| 13. | Ambient Temperature (oC)             | Min. 12°C, Max. 22°C   |                    |            |
| 14. | Weather Condition during Moni        |  |                    |            |
| 15. | Instrument Code & Calibration S      | status ISSPL/INS/C/212, ISSPL/INS/197  | 7. ISSPL/INS/C/126 |            |

**RESULTS** 

| 6200000 |                           | TEOOLIO                            | (1      |       |                        |                 |
|---------|---------------------------|------------------------------------|---------|-------|------------------------|-----------------|
| S.No.   | Name of rest              | Method of Test                     | Results | Unit  | Limit as per<br>NAAQS* | Detection Limit |
| I.Che   | mical Parameter:-         |                                    |         |       |                        |                 |
|         | 1. Atmospheric Pollution  |                                    |         |       |                        |                 |
| 1       | Sulphur Dioxide ( as SO2) | IS:5182 (Part 2)-2001, Reaff :2017 | 8.1     | µg/m³ | 80 (Max.)              | 4               |
| 2       | Nitrogen Dioxide( as NO2) | IS:5182 (Part 6)-2006, Reaff       | 30.8    | μg/m³ | 80 (Max.)              | 6               |

Page No. 1/2





(Promoted by Indian Register of Shipping)







CEG Tower, 1<sup>st</sup>& 2 <sup>nd</sup> Floor, B-11G, Industrial Area, Malviya Nagar, Jaipur, Rajasthan – 302017: India Tel: 0141-4805672|Email – lab@irclass.org |Website : www.isspllab.com

### **TEST REPORT**

| Report No. |                                | ISSPL/EN/24-25/20209                  |                 |       | ate                    | 20/12/2024      |
|------------|--------------------------------|---------------------------------------|-----------------|-------|------------------------|-----------------|
| S.No.      | Name of Test                   | Method of Test                        | Results         | Unit  | Limit as per<br>NAAQS* | Detection Limit |
| 2          |                                | :2017                                 |                 |       |                        |                 |
| 3          | Particulate Matter ( as PM2.5) | IS:5182 (Part 24):2019                | 29.76           | µg/m³ | 60 (Max.)              | 1               |
| 4          | Particulate Matter ( as PM10)  | IS:5182 (Part 23)-2006,<br>Reaff:2017 | 68.14           | μg/m³ | 100 (Max.)             | 1               |
| 5          | Carbon Monoxide ( as CO)       | IS 5182 (Part -10):1999               | 1.24            | mg/m³ | 4 (Max.)               | 0.02            |
| 6          | Lead (as Pb)                   | USEPA Method IO 3.5<br>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 Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-se.-3(i)] 16.11.2009.

Remark: Sampling done by ISSPL Representative (Mr.Pokhar Nath Yogi).

\*\*End of the Report\*\*

Page No. 2/2





(Promoted by Indian Register of Shipping)







CEG Tower, 1<sup>st</sup>& 2 <sup>nd</sup> Floor, B-11G, Industrial Area, Malviya Nagar, Jaipur, Rajasthan - 302017: India Tel: 0141-4805672 | Email – lab@irclass.org | Website : www.isspllab.com

## **TEST REPORT**

| lame & address of Customer          | D 11 1 D 1 1 1 1 1 1 1   |   |  |
|-------------------------------------|--|---|--|
|                                     | Power Mech Project Limited Talwandi Sabo Power Ltd., 3X660MW Therr Power Plant, Banawala, Mansa District Punj  |   |  |
| Reference No.                       | Your TRF 15/12/2024 (Reg. No. 78807)   |   |  |
| laterial Identification with etails | Ambient Air Quality Monitoring: Qty. 1 No  | ).  |  |
| Date of Sampling                    | 13/12/2024 to 14/12/2024   |   |  |
| Time of Sampling                    | 10:30 am to 10:30 am   |   |  |
| Sampling Location                   | Station No. 02 (CAAQMS)  |   |  |
| Sampling Protocol                   | IS:5182 (Pt-14) 2000   |   |  |
| Duration of Sampling (Minutes)      | 1440 Min.  |   |  |
| Test Started On                     | 15/12/2024   |   |  |
| Test Completed On                   | 20/12/2024   |   |  |
| Date of sample Testing              | 15/12/2024 To 20/12/2024   |   |  |
| lature & Activity of the Unit       | Human and Plant Site Activities  |   |  |
| Ambient Temperature (oC)            |  |   |  |
| Veather Condition during Monito     |  |   |  |
|                                     |  |   |  |
| Sa<br>Di<br>Te<br>Da                | empling Protocol curation of Sampling (Minutes) est Started On est Completed On ate of sample Testing ature & Activity of the Unit mbient Temperature (oC) | ampling Protocol uration of Sampling (Minutes)  est Started On  15/12/2024  est Completed On  20/12/2024  ate of sample Testing 15/12/2024 To 20/12/2024  ature & Activity of the Unit Human and Plant Site Activities  mbient Temperature (oC)  Min. 12°C, Max. 22°C | ampling Protocol uration of Sampling (Minutes)  set Started On  15/12/2024  set Completed On  20/12/2024  ate of sample Testing 15/12/2024 To 20/12/2024  atture & Activity of the Unit Human and Plant Site Activities  mbient Temperature (oC)  IS:5182 (Pt-14) 2000  1440 Min.  20/02/2024  20/12/2024  Human and Plant Site Activities  Min. 12°C, Max. 22°C |

**RESULTS** 

| S.No. | Hame of rest              | Method of Test                     | Results | Unit  | Limit as per<br>NAAQS*                  | Detection Limit |
|-------|---------------------------|------------------------------------|---------|-------|---|-----------------|
| I.Che | emical Parameter:-        |                                    |         |       | 1 1111111111111111111111111111111111111 |                 |
|       | 1. Atmospheric Pollution  |                                    |         |       |   |                 |
| 1     | Sulphur Dioxide ( as SO2) | IS:5182 (Part 2)-2001, Reaff :2017 | 8.5     | µg/m³ | 80 (Max.)                               | 4               |
| 2     | Nitrogen Dioxide( as NO2) | IS:5182 (Part 6)-2006, Reaff       | 31.6    | µg/m³ | 80 (Max.)                               | 6               |

Page No. 1/2





(Promoted by Indian Register of Shipping)







CEG Tower, 1<sup>st</sup>& 2 <sup>nd</sup> Floor, B-11G, Industrial Area, Malviya Nagar, Jaipur, Rajasthan – 302017: India Tel: 0141-4805672|Email – lab@irclass.org |Website : www.isspllab.com

## **TEST REPORT**

| Report No. |                                | ISSPL/EN/24-25/20193                  |                 |       | Date                   | 20/12/2024      |
|------------|--------------------------------|---------------------------------------|-----------------|-------|------------------------|-----------------|
| S.No.      | Name of Test                   | Method of Test                        | Results         | Unit  | Limit as per<br>NAAQS* | Detection Limit |
| 2          |                                | :2017                                 |                 |       |                        |                 |
| 3          | Particulate Matter ( as PM2.5) | IS:5182 (Part 24):2019                | 37.63           | μg/m³ | 60 (Max.)              | 1               |
| 4          | Particulate Matter ( as PM10)  | IS:5182 (Part 23)-2006,<br>Reaff:2017 | 73.21           | µg/m³ | 100 (Max.)             | 1               |
| 5          | Carbon Monoxide ( as CO)       | IS 5182 (Part -10):1999               | 1.61            | mg/m³ | 4 (Max.)               | 0.02            |
| 6          | Lead (as Pb)                   | USEPA Method IO 3.5<br>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 Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-se.-3(i)] 16.11.2009.

Remark: Sampling done by ISSPL Representative (Mr.Pokhar Nath Yogi).

\*\*End of the Report\*\*

Page No. 2/2





(Promoted by Indian Register of Shipping)

## **Testing Laboratory**





CEG Tower, 1<sup>st</sup>& 2 <sup>nd</sup> Floor, B-11G, Industrial Area, Malviya Nagar, Jaipur, Rajasthan – 302017: India Tel: 0141-4805672|Email – lab@irclass.org |Website: www.isspllab.com

## **TEST REPORT**

|     | Report No.                           | SSPL/EN/24-25/20210  | Date              | 20/12/2024 |
|-----|--------------------------------------|--|-------------------|------------|
| 1.  | Name & address of Customer           | Power Mech Project Limited<br>Talwandi Sabo Power Ltd., 3X66<br>Power Plant, Banawala, Mansa I |                   |            |
| 2.  | Reference No.                        | Your TRF 16/12/2024 (Reg. No.  | 78790)            |            |
| 3.  | Material Identification with details | Ambient Air Quality Monitoring   | g: Qty. 1 No.     |            |
| 4.  | Date of Sampling                     | 13/12/2024 to 14/12/2024   |                   |            |
| 5.  | Time of Sampling                     | 11:30 am to 11:30 am   |                   |            |
| 6.  | Sampling Location                    | Station No 3 (CAAQMS)  |                   |            |
| 7.  | Sampling Protocol                    | IS:5182 (Pt-14) 2000   |                   |            |
| 8.  | Duration of Sampling (Minutes)       | 1440 Min.  |                   |            |
| 9.  | Test Started On                      | 16/12/2024   |                   |            |
| 10. | Test Completed On                    | 20/12/2024   |                   |            |
| 11. | Date of sample Testing               | 16/12/2024 To 20/12/2024   |                   |            |
| 12. | Nature & Activity of the Unit        | Human and Plant Site Activities  |                   |            |
| 13. | Ambient Temperature (oC)             | Min. 12°C, Max. 22°C   |                   |            |
| 14. | Weather Condition during Monit       |  |                   |            |
| 15. | Instrument Code & Calibration S      | tatus ISSPL/INS/C/214, ISSPL/INS/228   | 10001 (1101010101 |            |

**RESULTS** 

| S.No. | Hame of rest              | Method of Test                     | Results | Unit  | Limit as per<br>NAAQS* | Detection Limit |
|-------|---------------------------|------------------------------------|---------|-------|------------------------|-----------------|
| I.Che | emical Parameter:-        | •                                  |         |       | MAAQO                  |                 |
|       | 1. Atmospheric Pollution  |                                    |         |       |                        |                 |
| 1     | Sulphur Dioxide ( as SO2) | IS:5182 (Part 2)-2001, Reaff :2017 | 9.4     | µg/m³ | 80 (Max.)              | 4               |
| 2     | Nitrogen Dioxide( as NO2) | IS:5182 (Part 6)-2006, Reaff       | 34.7    | μg/m³ | 80 (Max.)              | 6               |

Page No. 1/2





(Promoted by Indian Register of Shipping)

### **Testing Laboratory**



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



| Report No. |                                | ISSPL/EN/24-25/20210                  |                 |       | ate                    | 20/12/2024      |
|------------|--------------------------------|---------------------------------------|-----------------|-------|------------------------|-----------------|
| S.No.      | Name of Test                   | Method of Test                        | Results         | Unit  | Limit as per<br>NAAQS* | Detection Limit |
| 2          |                                | :2017                                 |                 |       |                        |                 |
| 3          | Particulate Matter ( as PM2.5) | IS:5182 (Part 24):2019                | 38.95           | μg/m³ | 60 (Max.)              | 1               |
| 4          | Particulate Matter ( as PM10)  | IS:5182 (Part 23)-2006,<br>Reaff:2017 | 84.97           | μg/m³ | 100 (Max.)             | 1               |
| 5          | Carbon Monoxide ( as CO)       | IS 5182 (Part -10):1999               | 1.38            | mg/m³ | 4 (Max.)               | 0.02            |
| 6          | Lead (as Pb)                   | USEPA Method IO 3.5<br>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 Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-se.-3(i)] 16.11.2009.

Remark: Sampling done by ISSPL Representative (Mr.Pokhar Nath Yogi).

\*\*End of the Report\*\*

Page No. 2/2





(Promoted by Indian Register of Shipping)

## **Testing Laboratory**





CEG Tower, 1<sup>st</sup>& 2 <sup>nd</sup> Floor, B-11G, Industrial Area, Malviya Nagar, Jaipur, Rajasthan – 302017: India Tel: 0141-4805672|Email – lab@irclass.org | Website : www.isspllab.com

# **TEST REPORT**

|     | Report No.                           | SSPL/EN/24-25/20194  | Date   | 20/12/2024 |
|-----|--------------------------------------|--|--|------------|
| 1.  | Name & address of Customer           | Power Mech Project Limited<br>Talwandi Sabo Power Ltd., 3X66<br>Power Plant, Banawala, Mansa I |  | *          |
| 2.  | Reference No.                        | Your TRF 15/12/2024 (Reg. No.  | 78806)   |            |
| 3.  | Material Identification with details | Ambient Air Quality Monitoring   | g: Qty. 1 No.  |            |
| 4.  | Date of Sampling                     | 13/12/2024 to 14/12/2024   |  |            |
| 5.  | Time of Sampling                     | 11:00 am to 11:00 am   |  |            |
| 6.  | Sampling Location                    | Station No. 04 (CAAQMS)  |  |            |
| 7.  | Sampling Protocol                    | IS:5182 (Pt-14) 2000   |  |            |
| 8.  | Duration of Sampling (Minutes)       |  |  |            |
| 9.  | Test Started On                      | 15/12/2024   |  |            |
| 10. | Test Completed On                    | 20/12/2024   | the state of the s |            |
| 11. | Date of sample Testing               | 15/12/2024 To 20/12/2024   |  |            |
| 12. | Nature & Activity of the Unit        | Human and Plant Site Activities  |  |            |
| 13. | Ambient Temperature (oC)             | Min. 12°C, Max. 22°C   |  |            |
| 14. | Weather Condition during Mon         | itoring Clear Sky  |  |            |
| 15. | Instrument Code & Calibration        | Status ISSPL/INS/C/172, ISSPL/INS/209  | 9, ISSPL/INS/C/123   |            |

**RESULTS** 

| S.No. | 1121110 01 1001           | Method of Test                        | Results | Unit  | Limit as per<br>NAAQS* | Detection Limit |
|-------|---------------------------|---------------------------------------|---------|-------|------------------------|-----------------|
| I.Che | emical Parameter:-        |                                       |         | 70.   | •                      |                 |
|       | 1. Atmospheric Pollution  |                                       |         |       |                        |                 |
| 1     | Sulphur Dioxide ( as SO2) | IS:5182 (Part 2)-2001, Reaff<br>:2017 | 8.8     | μg/m³ | 80 (Max.)              | 4               |
| 2     | Nitrogen Dioxide( as NO2) | IS:5182 (Part 6)-2006, Reaff          | 32.5    | μg/m³ | 80 (Max.)              | 6               |

Page No. 1/2





(Promoted by Indian Register of Shipping)

### **Testing Laboratory**

CEG Tower, 1<sup>®</sup>& 2 <sup>nd</sup> Floor, B-11G, Industrial Area, Malviya Nagar, Jaipur, Rajasthan – 302017: India

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



| Report No. |                                | ISSPL/EN/24-25/20194                  |                 |                   | Date                   | 20/12/2024      |
|------------|--------------------------------|---------------------------------------|-----------------|-------------------|------------------------|-----------------|
| S.No.      | Name of Test                   | Method of Test                        | Results         | Unit              | Limit as per<br>NAAQS* | Detection Limit |
| 2          | E.                             | :2017                                 |                 |                   |                        |                 |
| 3          | Particulate Matter ( as PM2.5) | IS:5182 (Part 24):2019                | 32.18           | μg/m³             | 60 (Max.)              | 1               |
| 4          | Particulate Matter ( as PM10)  | IS:5182 (Part 23)-2006,<br>Reaff:2017 | 76.92           | μg/m³             | 100 (Max.)             | 1               |
| 5          | Carbon Monoxide ( as CO)       | IS 5182 (Part -10):1999               | 1.41            | mg/m <sup>2</sup> | 4 (Max.)               | 0.02            |
| 6          | Lead (as Pb)                   | USEPA Method IO 3.5<br>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 Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-se.-3(i)] 16.11.2009.

Remark: Sampling done by ISSPL Representative (Mr.Pokhar Nath Yogi).

\*\*End of the Report\*\*

Page No. 2/2





(Promoted by Indian Register of Shipping)

### **Testing Laboratory**





CEG Tower, 1<sup>st</sup>& 2 <sup>nd</sup> Floor, B-11G, Industrial Area, Malviya Nagar, Jaipur, Rajasthan – 302017: India Tel: 0141-4805672|Email – lab@irclass.org | Website : www.isspllab.com

# **TEST REPORT**

|     | Report No.                           | SSPL/EN/24-25/20195                    | Date  | 20/12/2024 |  |  |  |  |
|-----|--------------------------------------|--|---|------------|--|--|--|--|
| 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 15/12/2024 (Reg. No. 7        | 8805)   |            |  |  |  |  |
| 3.  | Material Identification with details | Ambient Air Quality Monitoring:        | Ambient Air Quality Monitoring: Qty. 1 No.  |            |  |  |  |  |
| 4.  | Date of Sampling                     | 14/12/2024 to 15/12/2024               |   |            |  |  |  |  |
| 5.  | Time of Sampling                     | 11:30 am to 11:30 am                   |   |            |  |  |  |  |
| 6.  | Sampling Location                    | Village Chelanwali                     |   |            |  |  |  |  |
| 7.  | Sampling Protocol                    | IS:5182 (Pt-14) 2000                   |   |            |  |  |  |  |
| 8.  | Duration of Sampling (Minutes)       | 1440 Min.                              |   |            |  |  |  |  |
| 9.  | Test Started On                      | 15/12/2024                             |   |            |  |  |  |  |
| 10. | Test Completed On                    | 20/12/2024                             |   |            |  |  |  |  |
| 11. | Date of sample Testing               | 15/12/2024 To 20/12/2024               |   |            |  |  |  |  |
| 12. | Nature & Activity of the Unit        | Human and Plant Site Activities        |   |            |  |  |  |  |
| 13. | Ambient Temperature (oC)             | Min. 12°C, Max. 22°C                   |   |            |  |  |  |  |
| 14. | Weather Condition during Moni        | toring Clear Sky                       |   |            |  |  |  |  |
| 15. | Instrument Code & Calibration S      | Status ISSPL/INS/C/172, ISSPL/INS/209, | ISSPL/INS/C/123   |            |  |  |  |  |

**RESULTS** 

| S.No. | Name of Test                                 | Method of Test                     | Results | Unit  | Limit as per<br>NAAQS* | Detection Limit |
|-------|--|------------------------------------|---------|-------|------------------------|-----------------|
| I.Che | emical Parameter:-  1. Atmospheric Pollution |                                    |         |       |                        |                 |
| 1     | Sulphur Dioxide ( as SO2)                    | IS:5182 (Part 2)-2001, Reaff :2017 | 9.9     | µg/m³ | 80 (Max.)              | 4               |
| 2     | Nitrogen Dioxide( as NO2)                    | IS:5182 (Part 6)-2006, Reaff       | 33.1    | μg/m³ | 80 (Max.)              | 6               |

Page No. 1/2





(Promoted by Indian Register of Shipping)

**Testing Laboratory** CEG Tower, 1st 2 nd Floor, B-11G, Industrial Area, Malviya Nagar, Jaipur, Rajasthan - 302017: India





### Tel: 0141-4805672 | Email - lab@irclass.org | Website: www.isspllab.com **TEST REPORT**

| Report No. |                                | ISSPL/EN/24-25/20195                  |                 |       | ate                    | 20/12/2024      |
|------------|--------------------------------|---------------------------------------|-----------------|-------|------------------------|-----------------|
| S.No.      | Name of Test                   | Method of Test                        | Results         | Unit  | Limit as per<br>NAAQS* | Detection Limit |
| 2          |                                | :2017                                 |                 |       |                        |                 |
| 3          | Particulate Matter ( as PM2.5) | IS:5182 (Part 24):2019                | 36.14           | µg/m³ | 60 (Max.)              | 1               |
| 4          | Particulate Matter ( as PM10)  | IS:5182 (Part 23)-2006,<br>Reaff:2017 | 86.79           | µg/m³ | 100 (Max.)             | 1               |
| 5          | Carbon Monoxide ( as CO)       | IS 5182 (Part -10):1999               | 1.52            | mg/m³ | 4 (Max.)               | 0.02            |
| 6          | Lead (as Pb)                   | USEPA Method IO 3.5<br>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 Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-se.-3(i)] 16.11.2009.

Remark: Sampling done by ISSPL Representative (Mr.Pokhar Nath Yogi).

\*\*End of the Report\*\*

Page No. 2/2

