SULTAN AZLAN SHAH POWER STATION
TNB JANAMANJUNG SDN BHD
CHEMICAL SERVICES AND ENVIRONMENT SECTION

MONTHLY REPORT
**February 2019**

1. Environment Performance Update

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| --- | --- | --- |
| **Parameter** |  | **Status / Description** |
| Stack monitoring | Unit M1 | All readings were within DOE limit except as mentioned below:* SO2 maximum readings exceeded limit for 4 days but daily average reading below the CAR 2014 limit.
* NOx maximum readings exceeded limit for 2 days but daily average reading below the CAR 2014 limit.
* Opacity maximum readings exceeded limit for whole month suspect due to ESP rapping and maintenance activities but average reading below the DOE limit except for 13 days. 4 days operation above 40% accumulated time exceed 15 min/day.
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| Unit M2 | All readings were within DOE limit except as mentioned below:* Opacity maximum readings exceeded limit for whole month suspect due to ESP rapping and maintenance activities but daily average reading below the CAR 2014 DOE limit except for 3 days. 11 days operation above 40% accumulated time exceed 15 min/day.
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| Unit M3 | All readings were within DOE limit except as mentioned below:* NOx maximum readings exceeded limit for 2 days but daily average reading below the CAR 2014 limit.
* Opacity maximum reading and daily average exceeded limit CAR 2014 for whole month suspect due to ESP rapping and maintenance activities but average reading below the DOE limit.
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| Unit M4 | All readings were within DOE limit except as mentioned below:* SO2 maximum readings exceeded limit for 12 days but daily average reading below the CAR 2014 DOE limit except for 2 days.
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| Rain Water | AQM No. 1 | Average pH reading was 5.04 |
| AQM No. 2 | Average pH reading was 5.24 |
| AQM No. 3 | Average pH reading was 5.08 |
| Ambient Air | AQM No. 1 | All readings were within DOE limit except as mention below:* PM10 exceeded maximum limit for 5 days suspected from road dust and haze.
* PM2.5 exceeded maximum limit for 9 days suspected from road dust and haze.
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| AQM No. 2 | All readings were within DOE limit except as mention below:* PM10 exceeded maximum limit for 2 days suspected from road dust and haze.
* PM2.5 exceeded maximum limit for 5 days suspected from road dust and haze.
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| AQM No. 3 | All readings were within DOE limit except as mention below:* PM10 exceeded maximum limit for 1 day suspected from road dust and haze.
* PM2.5 exceeded maximum limit for 1 day suspected from road dust and haze.
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| Noise Level | NM1- North bank of island. | Day and night Leq dB readings within limit.  |
| NM2- East bank of island | Day and night Leq dB readings within limit.  |
| NM3- North bank of island (Middle) | Day and night Leq dB readings within limit.  |
| NM4-West bank of island | Day and night Leq dB readings within limit.  |
|  |
| GF 1IWWTP Effluent |  | All parameters tested within DOE standard B limit |
| GF 2IWWTP Effluent |  | All parameters tested within DOE standard B limit |
|  |
| GF1CYWWTP Effluent |  | All parameters tested within DOE standard B limit. |
| GF2CYWWTP Effluent |  | All parameters tested within DOE standard B limit |
|  |
| GF1Cooling water | Fore bay | All parameters tested within the DOE standard B limit |
| Outfall | All parameters tested within the DOE standard B limit |
| GF2Cooling water | Fore bay | All parameters tested within the DOE standard B limit  |
| Outfall | All parameters tested within the DOE standard B limit |
| GF1Storm water | N/A | All parameters tested within the DOE standard B limit. |
| GF2Storm water | N/A | All parameters tested within the DOE standard B limit. |
| Scheduled Wastes Disposed(MT) | N/A | SW110 – 0.208SW305 – 5.6SW306 – 0.4SW409 – 0.203SW410 – 0.879SW429 – 3.0 |

1. **Effluent (treated water) Discharged:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO.** | **PLANT** | **TOTAL DISCHARGED THIS MONTH****m3** | **TOTAL DISCHRAGED** **IN THIS FY****m3** | **REMARKS** |
| 1 | GF1 IWWTP | 31,661 | 64,153 |  |
| 2 | GF1 CYWWTP | 2,144 | 11,707 |  |
| 3 | GF2 IWWTP | 24,305 | 53,323 |  |
| 4 | GF2 CYWWTP | - | - | RECYCLED |
| **TOTAL** | **58,110** | **129,183** |  |

1. **List of activities related to environment in FY2018**

|  |  |
| --- | --- |
| **Date** | **Activities** |
| NIL |  |

1. Environmental achievement

|  |  |  |
| --- | --- | --- |
|  |  |  |
| **Description** | **ISEMS Score / Rating** |
| **FY 14/15** | **FY 15/16** |
| ENVIRONMENTAL (EMS) AUDIT SCORE | 93.50% | 95.40% |
|  |  |  |