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

MONTHLY REPORT
**November 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:* M1 under maintenance outage from 1 – 14 November 2019, 15 – 17 November 2019 and from 21 November 2019 – 23 December 2019.
* SO2 maximum reading exceeded limit for 1 day but daily average reading below limit
* Opacity maximum reading exceeded DOE limit for 7 days suspect due to ESP rapping and maintenance activities but daily average reading below the DOE limit except for 1 day.
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| Unit M2 | * M2 under plant outage for whole month.
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| Unit M3 | All readings were within DOE limit except as mentioned below:* M3 under maintenance outage on 7 November 2019 and from 29 November 2019 – 16 December 2019.
* CO maximum reading exceeded limit for 1 day but daily average reading below limit.
* Dust maximum reading exceeded limit for 4 days but daily average reading below limit
* Opacity maximum reading exceeded limit for 28 days suspect due to ESP rapping and maintenance activities but daily average reading below the DOE limit except for 1 day.
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| Unit M4 | All readings were within DOE limit except as mentioned below:* SO2 maximum readings exceeded limit for 5 days but daily average reading below the CAR 2014 DOE limit except for 2 days.
* CO maximum reading exceeded limit for 10 days but daily average reading below the CAR 2014 DOE limit.
* Dust maximum reading exceeded limit CAR 2014 for 21 days but daily average reading below limit except for 7 days.
* Opacity maximum reading exceeded limit CAR 2014 for 21 days but daily average reading below limit except for 13 days. Opacity emission above 40% exceeded 5 min/hr for 2 days
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| Rain Water | AQM No. 1 | Average pH reading was 4.69 |
| AQM No. 2 | Average pH reading was 4.81 |
| AQM No. 3 | Average pH reading was 4.95 |
| Ambient Air | AQM No. 1 | All readings were within DOE limit. |
| 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 3 days suspected from road dust and haze.
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| AQM No. 3 | All readings were within DOE limit. |
| 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.  |
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| 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 | \* No Disposal |

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

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| --- | --- | --- | --- | --- |
| **NO.** | **PLANT** | **TOTAL DISCHARGED THIS MONTH****m3** | **TOTAL DISCHRAGED** **IN THIS FY****m3** | **REMARKS** |
| 1 | GF1 IWWTP | 35,702 | 369,472 |  |
| 2 | GF1 CYWWTP | 31,322 | 142,843 |  |
| 3 | GF2 IWWTP | 29,616 | 283,093 |  |
| 4 | GF2 CYWWTP | - | - | RECYCLED |
| **TOTAL** | **96,640** | **795,408** |  |

1. **List of activities related to environment in FY2019**

|  |  |
| --- | --- |
| **Date** | **Activities** |
| 9-11 Jan 2019 | ISO:HSE Legal Requirements and Internal Audit Course/training (ISO9001,14001 & 45001) |
| 25 Feb-1 Mar 2019 | Internal Audit  |
| 1 Apr 2019 | Environmental Management Review Meeting |
| 7 – 10 May 2019 | ISO14001:2015 SIRIM Surveillance Audit |
| 25 June 2019 | EMC meeting No. 1 FY2019 |
| 26 September 2019 | EMC meeting No. 2 FY2019 |

1. Environmental achievement

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