



**NABBIR**  
LABORATORY  
(KL) SDN. BHD.  
(413256-D)



**Analytical  
Chemists  
And  
Industrial  
Consultants**

**Address:**  
No 265-267  
Jalan Nilai 3/21  
Kawasan  
Perindustrian  
Nilai 3  
71800 Nilai  
Negeri Sembilan  
Malaysia

**Toll Free:**  
1-300-888-003

**Facsimile:**  
+6(06) 799 0688

**Email:**  
careline@nabbirlab.com

**Website:**  
www.nabbirlab.com

**To :-** Wiranda (M) Sdn Bhd  
Tingkat 1, 3374, Jalan 18/31,  
Taman Sri Serdang,  
43300 Seri Kembangan,  
Selangor.

**Attention :-** En Amirul Arif

**Project :-** Yong Forest Reserve, District of Jerantut,  
Pahang

## Certificate of Analysis

### Result of Analysis

**Measurement Location** : N1  
**Measurement Description** : Boundary Noise Monitoring  
**Measurement Period** : 24 hours  
**Equipment Description** : Integrating Sound Level Meter (RS232)  
**Calibration SPL** : 94 dB and 114 dB  
**Frequency Weighting** : A  
**Time Weighting Response** : Fast

### Measurement Result

Measurement Location	Measuring Period	Sound Descriptor <sup>1</sup>		Maximum Permissible Sound Level <sup>2</sup> (L <sub>Aeq</sub> )
		Parameters	Results	
N1	Day Time 07th September 2018 7.00 am - 10.00 pm	L <sub>Aeq</sub> L <sub>Amin</sub> L <sub>Amax</sub> L <sub>10</sub> L <sub>50</sub> L <sub>90</sub>	52.6 38.5 76.0 55.5 50.1 44.4	55 dBA
	Night Time 07th until 08th September 2018 10.00 pm - 7.00 am	L <sub>Aeq</sub> L <sub>Amin</sub> L <sub>Amax</sub> L <sub>10</sub> L <sub>50</sub> L <sub>90</sub>	45.1 38.2 65.0 51.0 47.9 43.8	45 dBA

### Notes :-

1) Sound Descriptors

Leq - Equivalent Continuous Sound Level

Sound Level that would produce a given daily noise dose if receiving area was exposed to the sound level continuously over a certain period of time.

2) Sururban Residential (Medium Density) Areas, Public Spaces, Parks, Recreational Areas. (Source: Annex A, Schedule 1: Maximum Permissible Sound Level (L<sub>eq</sub>) by Receiving Land Use Planning and New Development. The Planning Guidelines for Environmental Noise Limits and Noise, 2007)

3) \* Denotes that the noise limit had exceeded the stipulated limit

CHONG KOK HENG  
AMIC, B.Sc (Hons)  
(IKM No : A/2058/3859/03)



**NABBIR**  
LABORATORY  
(KL) SDN. BHD.  
(413256-D)



**Analytical  
Chemists  
And  
Industrial  
Consultants**

**Address:**  
No 265-267  
Jalan Nilai 3/21  
Kawasan  
Perindustrian  
Nilai 3  
71800 Nilai  
Negeri Sembilan  
Malaysia

**Toll Free:**  
1-300-888-003

**Facsimile:**  
+6(06) 799 0688

**Email:**  
careline@nabbirlab.com

**Website:**  
www.nabbirlab.com

**To :-** Wiranda (M) Sdn Bhd  
Tingkat 1, 3374, Jalan 18/31,  
Taman Sri Serdang,  
43300 Seri Kembangan,  
Selangor.

**Attention :-** En Amirul Arif

**Project :-** Yong Forest Reserve, District of Jerantut,  
Pahang

## Certificate of Analysis

### Result of Analysis

**Measurement Location** : N2  
**Measurement Description** : Boundary Noise Monitoring  
**Measurement Period** : 24 hours  
**Equipment Description** : Integrating Sound Level Meter (RS232)  
**Calibration SPL** : 94 dB and 114 dB  
**Frequency Weighting** : A  
**Time Weighting Response** : Fast

### Measurement Result

Measurement Location	Measuring Period	Sound Descriptor <sup>1</sup>		Maximum Permissible Sound Level <sup>2</sup> (L <sub>Aeq</sub> )
		Parameters	Results	
N2	Day Time 05th September 2018 7.00 am - 10.00 pm	L <sub>Aeq</sub> L <sub>Amin</sub> L <sub>Amax</sub> L <sub>10</sub> L <sub>50</sub> L <sub>90</sub>	56.4 43.3 74.1 59.7 52.1 48.8	55 dBA
	Night Time 05th until 06th September 2018 10.00 pm - 7.00 am	L <sub>Aeq</sub> L <sub>Amin</sub> L <sub>Amax</sub> L <sub>10</sub> L <sub>50</sub> L <sub>90</sub>	46.0 49.6 71.2 56.2 52.7 51.5	45 dBA

### Notes :-

1) Sound Descriptors

Leq - Equivalent Continuous Sound Level

Sound Level that would produce a given daily noise dose if receiving area was exposed to the sound level continuously over a certain period of time.

2) Suburban Residential (Medium Density) Areas, Public Spaces, Parks, Recreational Areas. (Source: Annex A, Schedule 1: Maximum Permissible Sound Level (L<sub>eq</sub>) by Receiving Land Use Planning and New Development. The Planning Guidelines for Environmental Noise Limits and Noise, 2007)

3) \* Denotes that the noise limit had exceeded the stipulated limit

**CHONG KOK HENG**  
AMIC, B.Sc (Hons)  
(IKM No : A/2051/3869/03)



**NABBIR**  
LABORATORY  
(KL) SDN. BHD.  
(413256-D)



**Analytical  
Chemists  
And  
Industrial  
Consultants**

**Address:**  
No 265-267  
Jalan Nilai 3/21  
Kawasan  
Perindustrian  
Nilai 3  
71800 Nilai  
Negeri Sembilan  
Malaysia

**Toll Free:**  
1-300-888-003

**Facsimile:**  
+6(06) 799 0688

**Email:**  
careline@nabbirlab.com

**Website:**  
www.nabbirlab.com

To :- **Wiranda (M) Sdn Bhd**  
Tingkat 1, 3374, Jalan 18/31,  
Taman Sri Serdang,  
43300 Seri Kembangan,  
Selangor.

Attention :- **En Amirul Arif**

Project :- **Yong Forest Reserve, District of Jerantut,  
Pahang**

## Certificate of Analysis

### Result of Analysis

Measurement Location : N3  
Measurement Description : Boundary Noise Monitoring  
Measurement Period : 24 hours  
Equipment Description : Integrating Sound Level Meter (RS232)  
Calibration SPL : 94 dB and 114 dB  
Frequency Weighting : A  
Time Weighting Response : Fast

### Measurement Result

Measurement Location	Measuring Period	Sound Descriptor <sup>1</sup>		Maximum Permissible Sound Level <sup>2</sup> (L <sub>Aeq</sub> )
		Parameters	Results	
N3	Day Time 06th September 2018 7.00 am - 10.00 pm	L <sub>Aeq</sub> L <sub>Amin</sub> L <sub>Amax</sub> L <sub>10</sub> L <sub>50</sub> L <sub>90</sub>	57.3 41.9 75.8 60.0 49.5 46.7	55 dBA
	Night Time 06th until 07th September 2018 10.00 pm - 7.00 am	L <sub>Aeq</sub> L <sub>Amin</sub> L <sub>Amax</sub> L <sub>10</sub> L <sub>50</sub> L <sub>90</sub>	45.0 49.6 71.2 56.2 52.7 51.5	45 dBA

### Notes :-

- 1) Sound Descriptors  
Leq - Equivalent Continuous Sound Level  
Sound Level that would produce a given daily noise dose if receiving area was exposed to the sound level continuously over a certain period of time.
- 2) Sururban Residential (Medium Density) Areas, Public Spaces, Parks, Recreational Areas. (Source: Annex A, Schedule 1: Maximum Permissible Sound Level (L<sub>Aeq</sub>) by Receiving Land Use Planning and New Development. The Planning Guidelines for Environmental Noise Limits and Noise, 2007)
- 3) \* Denotes that the noise limit had exceeded the stipulated limit

**CHONG KOK HENG**  
AMIC/B.Sc (Hons)  
(IKM No : A/2058/3869/03)