



MNR Multitech Sdn Bhd

# Technical Services

## List

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Effective from: 1 Jan 2026



# Technical Services List

Premis K02, Tingkat Bawah, Kompleks UMP Holdings,  
Lebuhraya Tun Razak, 26300, Gambang,  
Kuantan, Pahang.

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## Grease Testing Analysis

No	Description
1	<b>Cone Penetration Test</b> (Using HK-2020 Cone & Needle Penetration for Petroleum Product)
2	<b>Dropping Point Test</b> (Using HK 3498 - High-Temperature Dropping Point Apparatus)
3	<b>Consistency Test</b>
4	<b>Contamination Test</b>
5	<b>Copper Corrosion Test</b>
6	<b>Fourier Transform Infrared Spectrophotometer (FTIR)</b>
7	<b>Gas Chromatography-Mass Spectrometry (GC-MS)</b>
8	<b>Inductively Coupled Plasma Mass Spectrometry (ICP-MS)</b>
9	<b>Oil Bleeding Test</b>
10	<b>Oil Separation Test</b>
11	<b>Thermogravimetric Analysis (TGA)</b> < 700 °C
12	<b>Thermogravimetric Analysis (TGA)</b> 700 °C - 1000 °C
13	<b>Tribology Test</b> (Four-Ball Tester Method)

Delivery : Within 2 weeks



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## Packages for Water and Wastewater

Pac.	Description
A	<b>Concreting Purpose</b> pH Carbonate (as CO <sub>3</sub> ) Chloride (as Cl <sup>-</sup> ) Sulphate (as SO <sub>4</sub> ) Total solids
B	<b>Boiler Water</b> pH Chloride (as Cl <sup>-</sup> ) Sulphide (as SO <sub>3</sub> ) Total alkalinity (as CaCO <sub>3</sub> ) Total hardness (as CaCO <sub>3</sub> ) Total solids
C	<b>Cooling Tower Water</b> pH Chloride (as Cl <sup>-</sup> ) Total alkalinity (as CaCO <sub>3</sub> ) Total hardness (as CaCO <sub>3</sub> )
D	<b>Deionised Water Testing</b> Conductivity Free chlorine (as Cl <sub>2</sub> ) Silica (as Si) Total aerobic plate count
E	<b>Swimming Pool Water Testing</b> pH Turbidity Total alkalinity (as CaCO <sub>3</sub> ) Total dissolve solids Ammoniacal Nitrogen (as NH-N) Chloride (as Cl <sup>-</sup> ) Residue chlorine (as Cl <sub>2</sub> ) Nitrate (as NO <sub>3</sub> ) Iron (as Fe) Copper (as Cu) Total coliform count Total Escherichia coli count



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## Water and Packaged Drinking Water

Malaysian Food Act compliant

Malaysian Food Act:

1,900.00 25th Schedule, Regulation 394(1) & 360B(3) Standard for Water and Packaging Drinking Water :

Pac.	Description
A	<b>Physical Standard</b> Colour (True colour unit) Turbidity (NTU)
B	<b>Chemical Standard</b> pH Hardness (as CaCO <sub>3</sub> ) Aluminium (as Al) Ammonia (as N) Arsenic (as As) Cadmium (as Cd) Chromium (as Cr) Residue chlorine (as Cl) <sub>2</sub> Copper (as Cu) Cyanide (as CN) Flouride (as F) Iron (as Fe) Lead (as Pb) Magnesium (as Mg) Manganese (as Mn) Mercury (as Hg) Nitrate (as N) Phenol Selenium (as Se) Silver (as Ag) Sodium (as Na) Sulphate (as SO) <sub>4</sub> Zinc (as ZN)
C	<b>Bacteriological Standard</b> Total coliform count Total <i>Escherichia coli</i> count



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## Wastewater

Environmental Quality Act 1974 compliant

Pac.	Description
A	<p><b>Industrial Effluent</b></p> <p>pH            Temperature            BOD5 @ 20 °C            COD            Colour            Oil &amp; grease            Suspended solids            Ammoniacal Nitrogen            Aluminium (as Al)            Arsenic (as As)            Barium (as Ba)            Boron (as B)            Cadmium (as Cd)            Chromium III (as Cr<sup>3+</sup>)            Chromium VI (as Cr<sup>6+</sup>)            Copper (as Cu)            Cyanide (as CN<sup>-</sup>)            Flouride (as F)            Formaldehyde            Total Iron (as Fe)            Lead (as Pb)            Manganese (as Mn)            Mercury (as Hg)            Phenol            Selenium (as Se)            Silver (as Ag)            Sulphide (as SO<sub>3</sub>)            Tin (as Sn)            Zinc (as ZN)</p>



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Pac.	Description
B	<p><b>Sewage Effluent</b> pH BOD5 @ 20 °C COD Oil &amp; grease Suspended solids Ammoniacal Nitrogen Nitrate Phosphorus</p>
C	<p><b>Discharge of Leachate</b> pH Temperature BOD5 @ 20 °C COD Colour Oil &amp; grease Suspended solids Ammoniacal Nitrogen Arsenic (as As) Barium (as Ba) Boron (as B) Cadmium (as Cd) Chromium III (as Cr<sup>3+</sup>) Chromium VI (as Cr<sup>6+</sup>) Copper (as Cu) Cyanide (as CN<sup>-</sup>) Flouride (as F) Formaldehyde Total Iron (as Fe)</p> <p>Lead (as Pb) Manganese (as Mn) Mercury (as Hg) Nickel Phenol Selenium (as Se) Silver (as Ag) Sulphide (as SO<sub>3</sub>) Tin (as Sn) Zinc (as ZN)</p>



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## Water and Wastewater Individual Test

No	Description
1	Ammonia (as $(\text{NH})_3$ )
2	Ammoniacal nitrogen (as $\text{NH}^4\text{-N}$ )
3	Biological oxygen demand (BOD5 @ 20 °C)
4	Chemical oxygen demand
5	Chloride (as $\text{CL}^-$ )
6	Chlorine (as Cl), Free (Residual)
7	Total chlorine
8	Chromium III (as $\text{Cr}^{3+}$ )
9	Chromium VI (as $\text{Cr}^{6+}$ )
10	Colour (Hazen)/(ADMI)
11	Conductivity/Resistivity
12	Cyanide (as $\text{CN}^-$ )
13	Dissolved oxygen (DO)
14	Dissolved solids
15	Sulphide (as $\text{S}^{2-}$ )
16	Flouride (as F)
17	Formaldehyde



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No	Description
18	Total nitrogen (as N)
19	Nitrite (as NO <sub>2</sub> )
20	Nitrate (as NO <sub>3</sub> )
21	Oil & grease
22	pH
23	Phenol
24	Phosphate (as PO <sub>4</sub> )
25	Sulphate (as SO <sub>4</sub> )
26	Sulphide (as S <sup>2-</sup> )
27	Sulphite (as SO <sub>3</sub> <sup>-</sup> )
28	Total alkalinity (CaCO <sub>2</sub> )
29	Total hardness (as CaCO <sub>3</sub> )
30	Total solids
31	Total Suspended Solids (TSS)
32	Turbidity
33	Total organic carbon (TOC)
34	Total coliform & Total <i>Escherichia coli</i> count
35	Heavy metal analysis



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## ELEMENTAL ANALYSIS

### CHNS ANALYZER

Pac.	Description
1.	Carbon Hydrogen Nitrogen Sulphur



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## ENVIRONMENTAL ANALYSIS

i. Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES)

No	Description
1	<b>A. Aqueous sample</b> <b><u>Standard 1</u></b> Ag, Al, Ba, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, In, K, Mg, Mn, Na, Ni, Pb, Sr, Tl, Zn
2	<b><u>Standard 2</u></b> As, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn
3	<b><u>Rare Earth Standard 1</u></b> Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Th, Tm, Y, Yb
4	<b><u>Rare Earth Standard 2</u></b> Sb, Au, Hf, Ir, Pd, Pt, Rh, Ru, Te, Sn
5	<b><u>Rare Earth Standard 3</u></b> B, Ge, Mo, Nb, P, Re, Si, Ta, Ti, W
6	<b><u>Sample prep for solid including grinding/crushing/digest</u></b>



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## ENVIRONMENTAL ANALYSIS

ii. Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

No	Description
1.	Cadmium Selenium



**MNR Multitech Sdn Bhd**

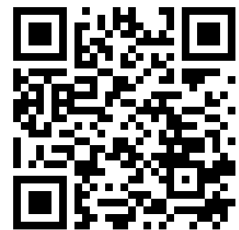
# Contact Us

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